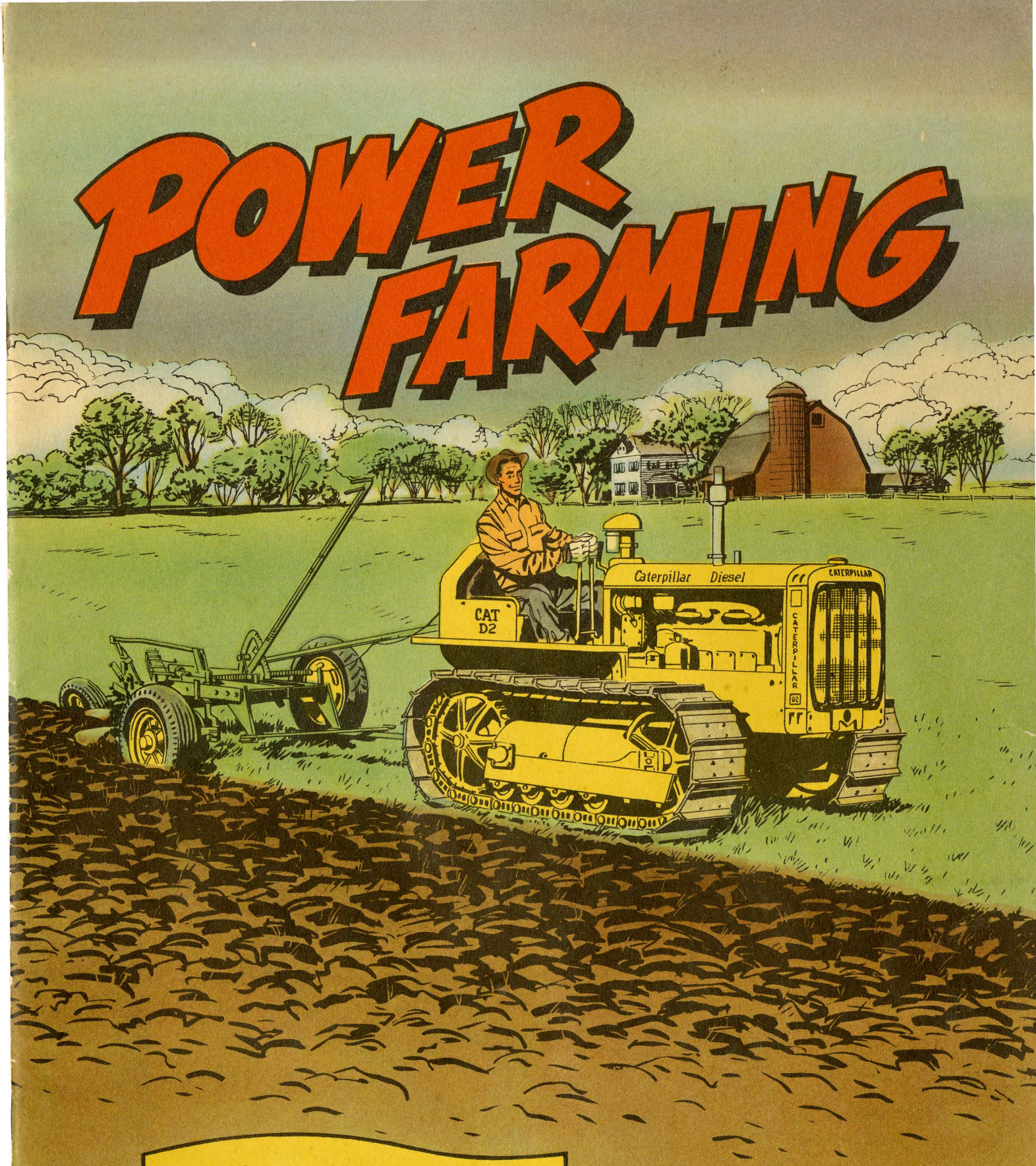
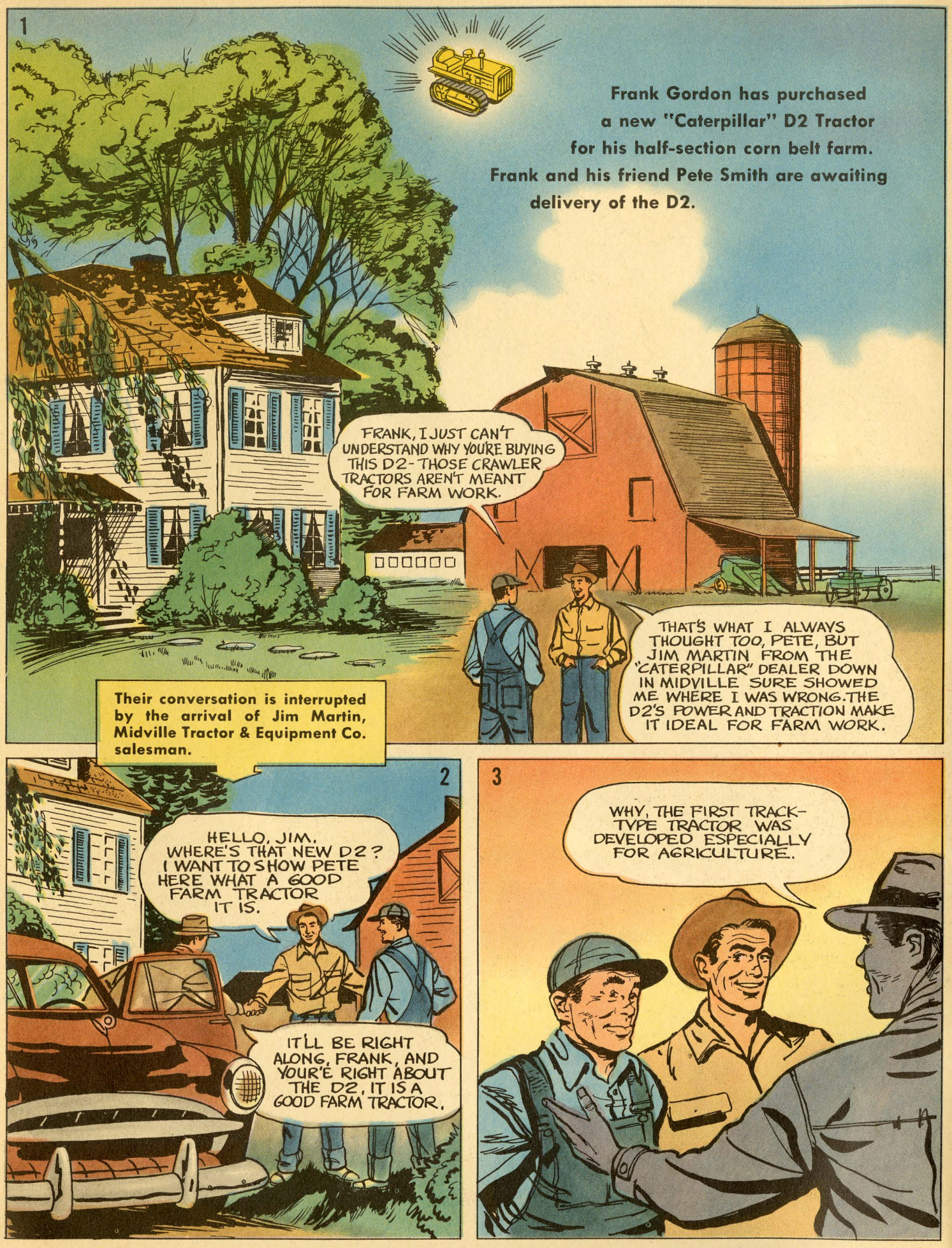
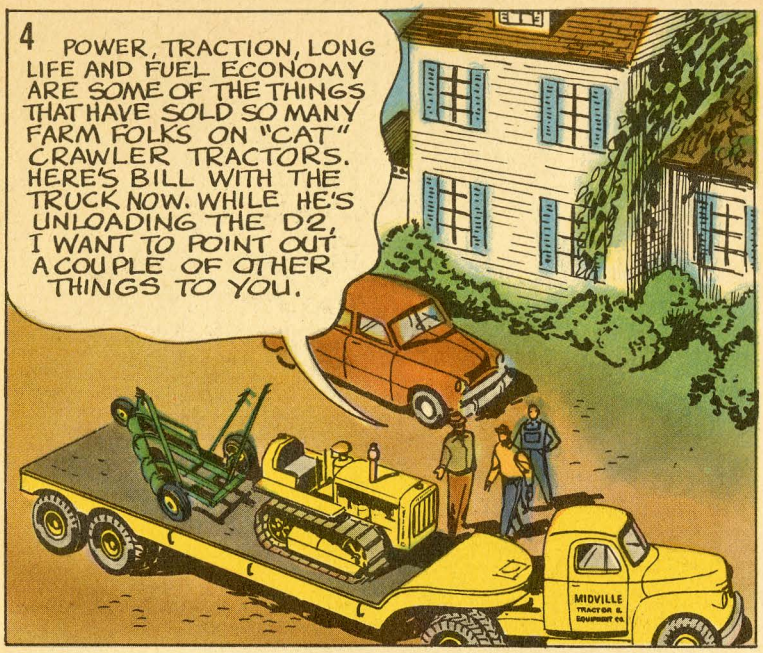
POWER FARMING

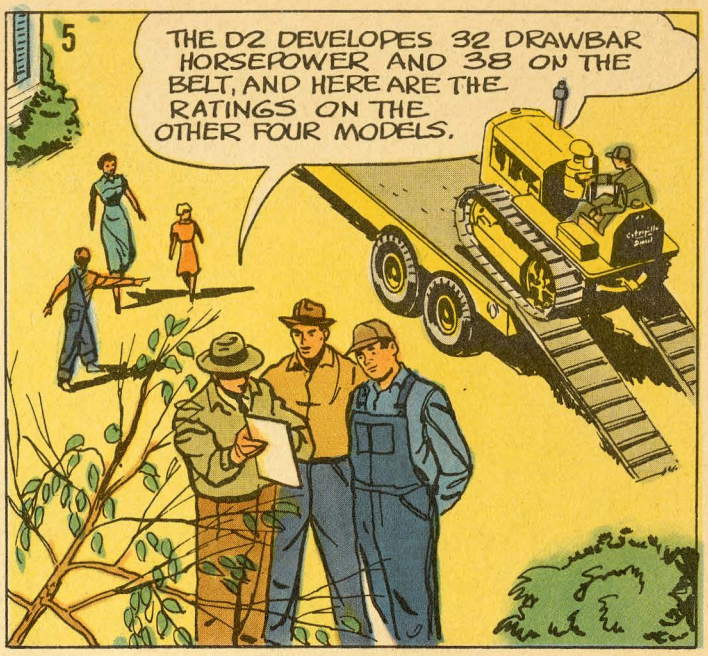


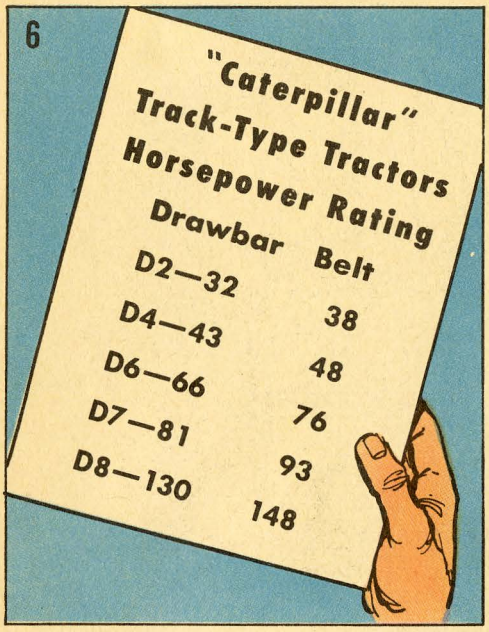
WITH "CATERPILLAR" DIESEL FARM TRACTORS.

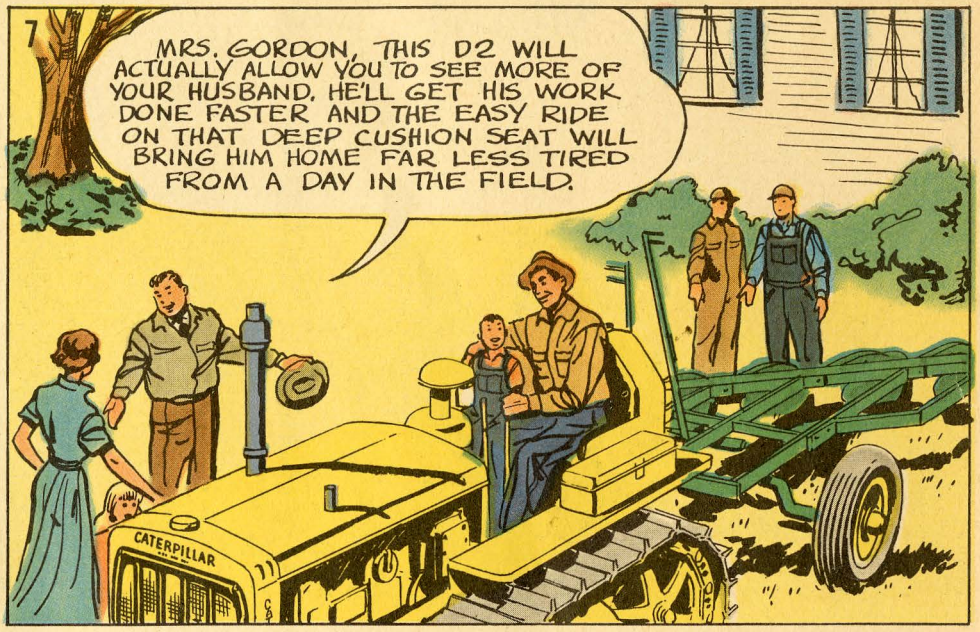


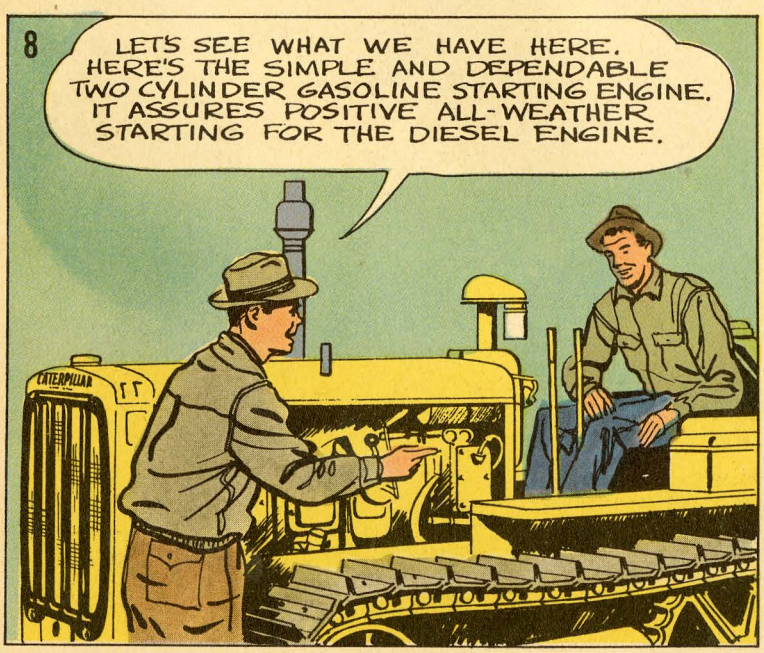
Copyright 1952 by Caterpillar Tractor Co., Peoria, Illinois

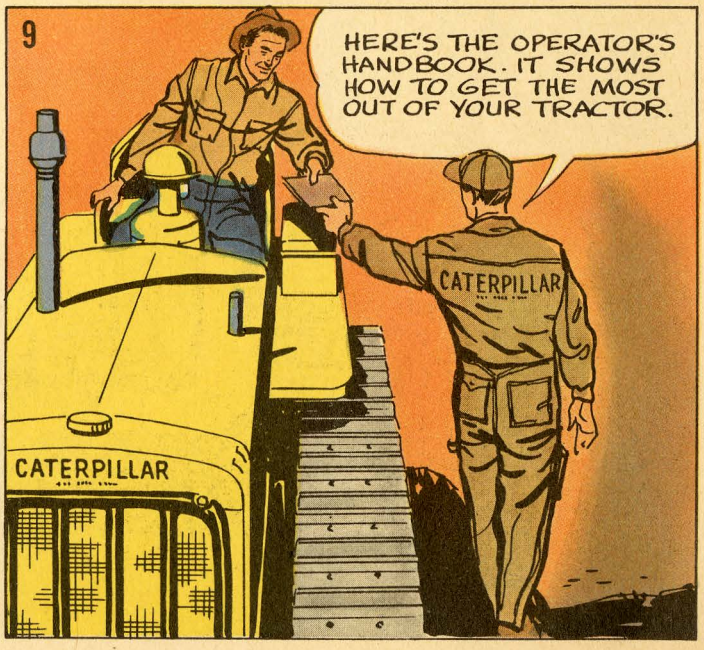

4
POWER, TRACTION, LONG LIFE AND FUEL ECONOMY ARE SOME OF THE THINGS THAT HAVE SOLD SO MANY FARM FOLKS ON "CAT" CRAWLER TRACTORS. HERE'S BILL WITH THE TRUCK NOW. WHILE HE'S UNLOADING THE D2, I WANT TO POINT OUT A COUPLE OF OTHER THINGS TO YOU.
MIDVILLE TRACTOR & EQUIPMENT CO.

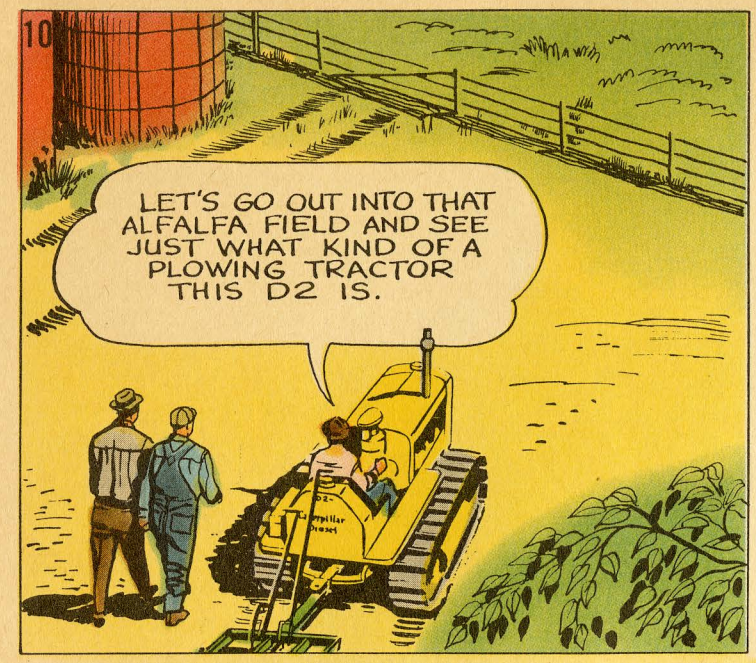

5
THE D2 DEVELOPES 32 DRAWBAR HORSEPOWER AND 38 ON THE BELT, AND HERE ARE THE RATINGS ON THE OTHER FOUR MODELS.


6
"Caterpillar"
Track-Type Tractors
Horsepower Rating
Drawbar Belt
D2—32 38
D4—43 48
D6—66 76
D7—81 93
D8—130 148

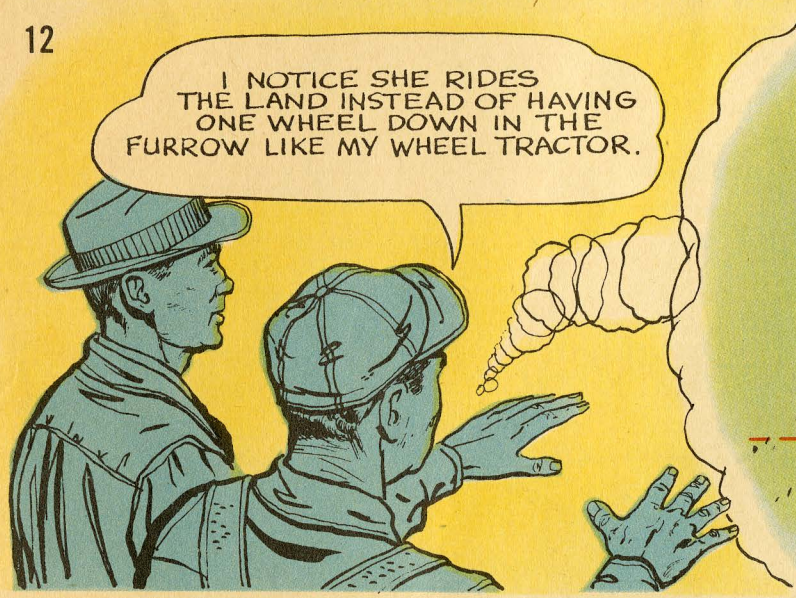

7
MRS. GORDON, THIS D2 WILL ACTUALLY ALLOW YOU TO SEE MORE OF YOUR HUSBAND. HE'LL GET HIS WORK DONE FASTER AND THE EASY RIDE ON THAT DEEP CUSHION SEAT WILL BRING HIM HOME FAR LESS TIRED FROM A DAY IN THE FIELD.
CATERPILLAR

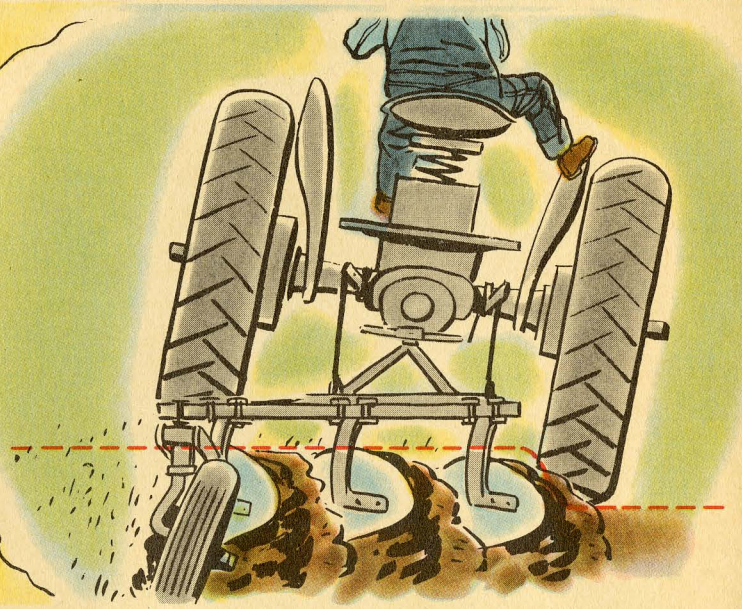

8
LET'S SEE WHAT WE HAVE HERE. HERE'S THE SIMPLE AND DEPENDABLE TWO CYLINDER GASOLINE STARTING ENGINE. IT ASSURES POSITIVE ALL-WEATHER STARTING FOR THE DIESEL ENGINE.
CATERPILLAR


9
HERE'S THE OPERATOR'S HANDBOOK. IT SHOWS HOW TO GET THE MOST OUT OF YOUR TRACTOR.
CATERPILLAR
CATERPILLAR


10
LET'S GO OUT INTO THAT ALFALFA FIELD AND SEE JUST WHAT KIND OF A PLOWING TRACTOR THIS D2 IS.

11
YOU SEE, PETE, WITH THE D2'S POWER AND TRACTION IT CAN PULL A BIGGER LOAD AT ANY PLOWING SPEED. THOSE SURE-FOOTED TRACKS WILL GET RIGHT UP NEXT TO THE FENCE ROWS TOO.


12
I NOTICE SHE RIDES THE LAND INSTEAD OF HAVING ONE WHEEL DOWN IN THE FURROW LIKE MY WHEEL TRACTOR.



13
THERE'S NO STRAINING TO STAY IN THE SEAT WHEN THE TRACTOR RIDES LEVEL LIKE THAT IS THERE, PETE?
CATERPILLAR

14

PETE, JIM TELLS ME I'LL REALLY BE SAVING MONEY ON FUEL TOO.

YOU BET, YOU'LL REALLY NOTICE A DIFFERENCE IN OPERATING COSTS WITH THIS D2, FRANK. THIS FUEL SYSTEM IS REALLY A "TIGHT-WAD" WHEN IT COMES TO FUEL COSTS. LET'S TAKE A QUICK LOOK AT SOME OF THE ADVANTAGES OF THE D2 OVER YOUR OLD TRACTOR.

15

WITH THE D2 YOU'LL COVER MORE GROUND BECAUSE THOSE GROUND-GRIPPING TRACKS LIMIT SLIPPAGE TO A MINIMUM. YOU REMEMBER THE PLOWING DEMONSTRATION WE WENT TO, FRANK? THE WHEEL TRACTOR LOST A LOT OF GROUND DUE TO SLIPPAGE, WHILE THE D2 SLIPPED VERY LITTLE. THIS LACK OF SLIPPAGE, ALONG WITH THE D2'S ABILITY TO PULL BIGGER LOADS WITH MUCH LOWER FUEL COSTS WILL MEAN MORE ACRES FINISHED QUICKER AND CHEAPER.

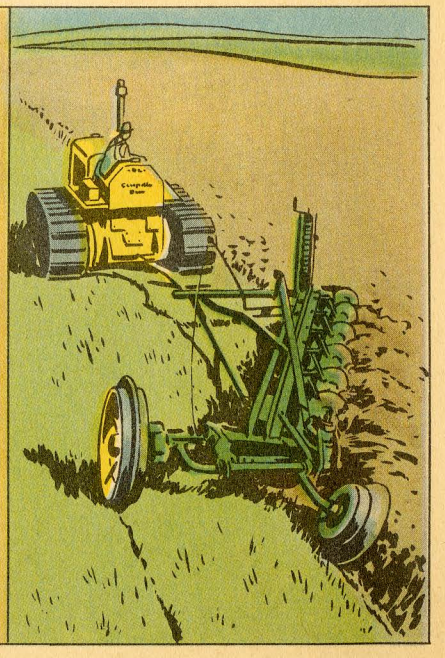
16

HOW ABOUT LAND PREPARATION IN OTHER PARTS OF THE COUNTRY, JIM, WHERE THEY USE DIFFERENT TOOLS AND METHODS THAN WE DO?

THIS ADVANTAGE OVER THE WHEEL TRACTOR HOLDS TRUE FOR ALL TYPES OF LAND PREPARATION.

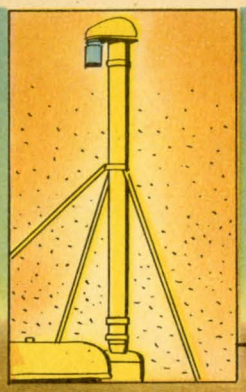
17

Land preparation is the most important single task of the farm tractor and one requiring the most power. The disk plow is a favorite on many farms for better mixing of trash and where dry and hard or sticky soils fail to scour on moldboard plows. Here again track-type tractors are ideal power units.

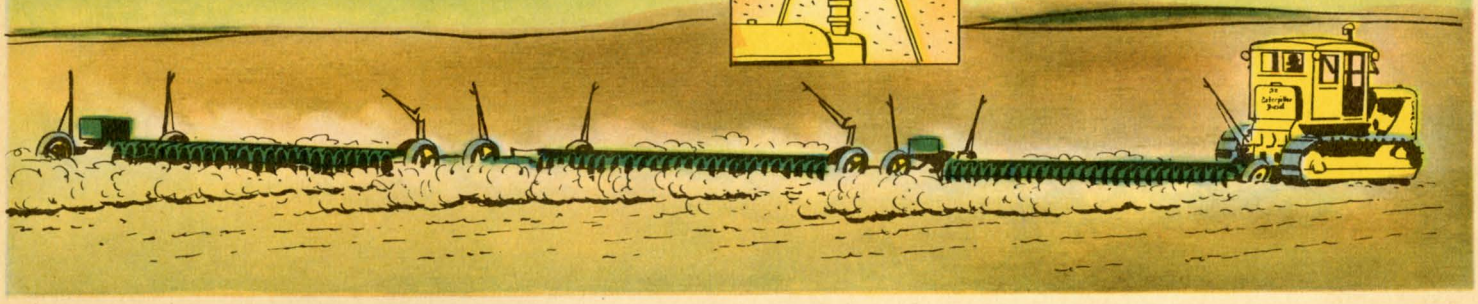


18

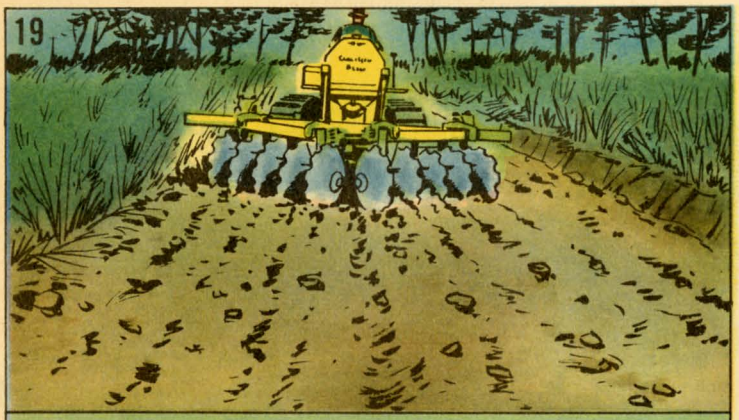
The disk tiller or one-way plow is widely used by wheat growers. The ability of "Cat" Diesel Tractors to pull a wide hitch of disk tillers gets the job done in record time.



In dust conditions such as these, the extension to the air cleaner inlet pipe is a real engine saver. It insures a constant supply of dust-free air. Cabs for added operator comfort are available for all five models of "Cat" Diesel Tractors.

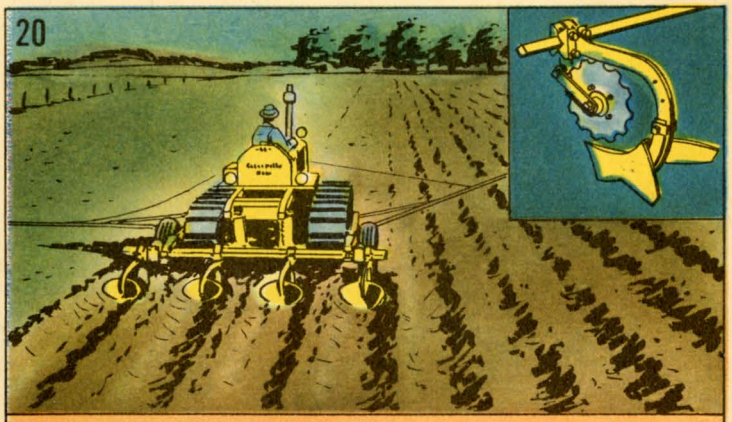


19



The mixing and cutting actions of the heavy disk plowing harrow make this tool a popular one for many owners, both for land preparation and for clearing. The Rome Disk Harrow mounted on the "Cat" Tool Bar handles this heavy job with ease.

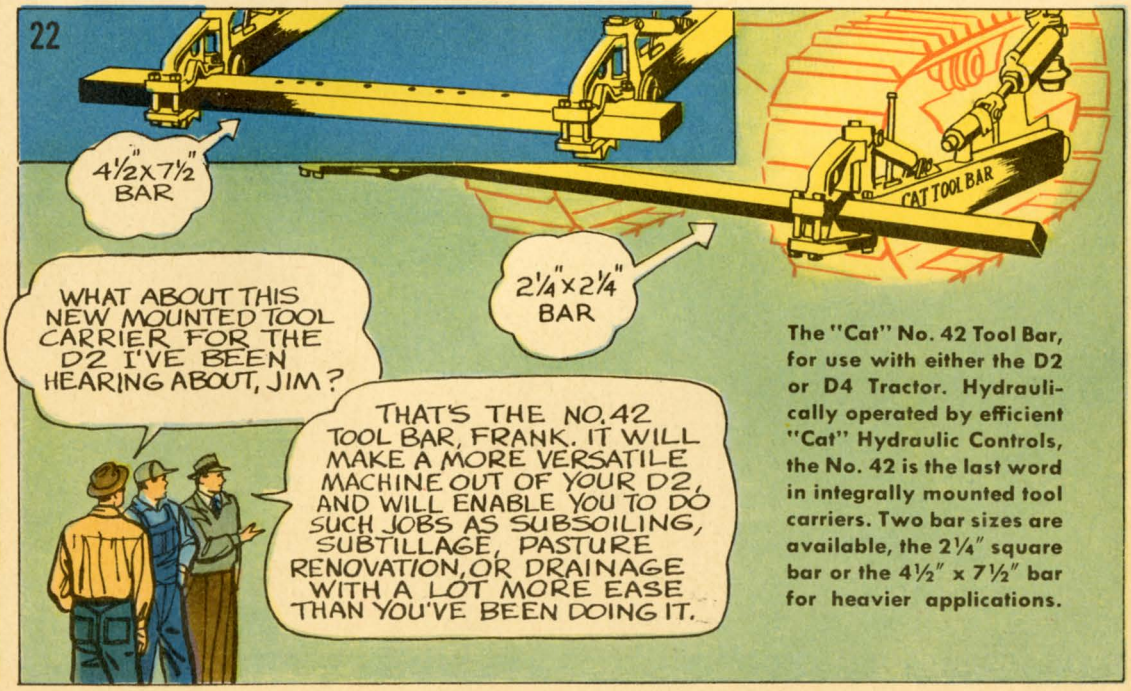
20



Where cropland is prepared with lister or middlebuster, these attachments on the "Caterpillar" Tool Bar make a perfect combination. Tool bars are available for "Cat" D2, D4, and D6 Tractors, with a variety of tillage tools.

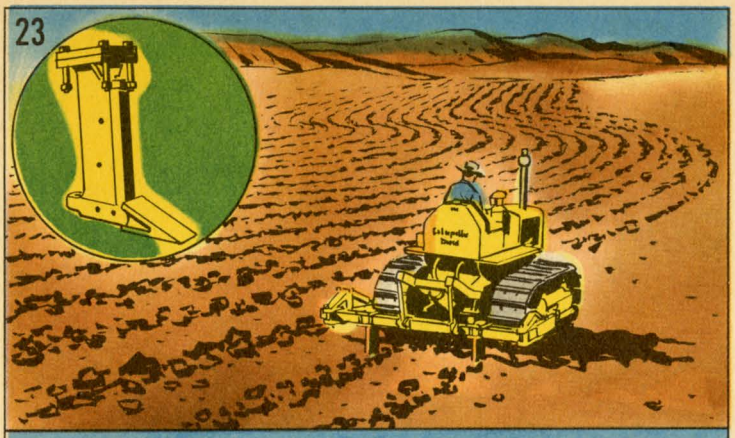
21

22



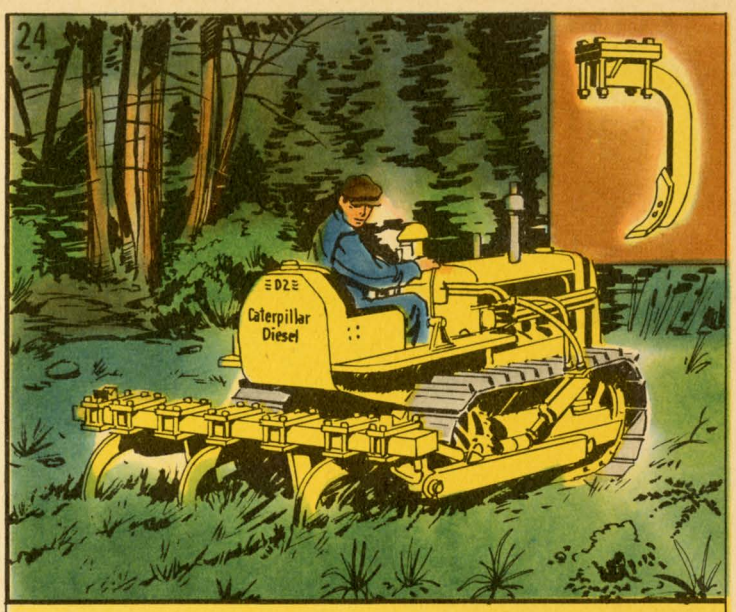
The "Cat" No. 42 Tool Bar, for use with either the D2 or D4 Tractor. Hydraulically operated by efficient "Cat" Hydraulic Controls, the No. 42 is the last word in integrally mounted tool carriers. Two bar sizes are available, the 2¼" square bar or the 4½" x 7½" bar for heavier applications.

23



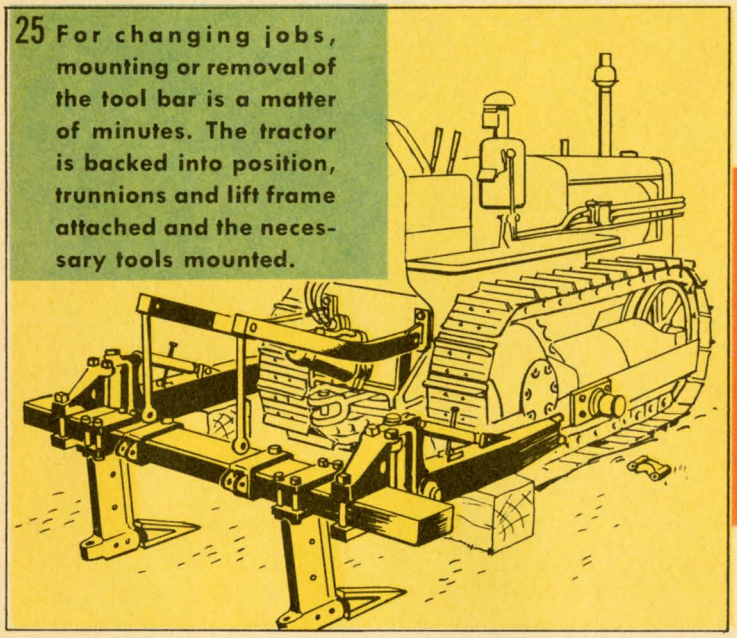
The "Cat" No. 64 Tool Bar is intended for either the D4 or D6 Tractor. Equipped with the subsoiler attachment, the D4-Tool Bar combination breaks hardpan and plow sole, deepening the root zone and increasing the soil water holding capacity.

24



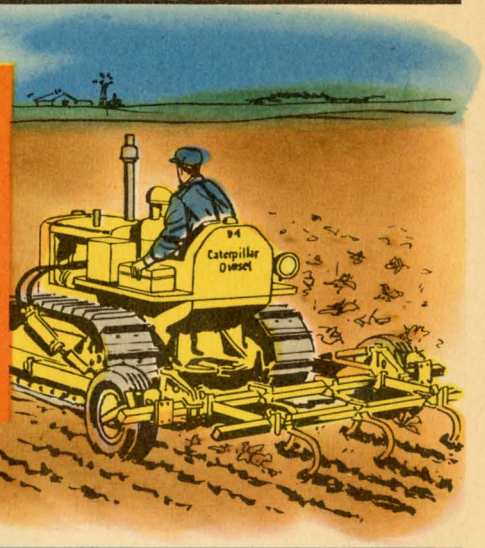
For deep rooted crops the chisel attachment for the tool bar is well suited to shatter soil to full root depth.

25 For changing jobs, mounting or removal of the tool bar is a matter of minutes. The tractor is backed into position, trunnions and lift frame attached and the necessary tools mounted.

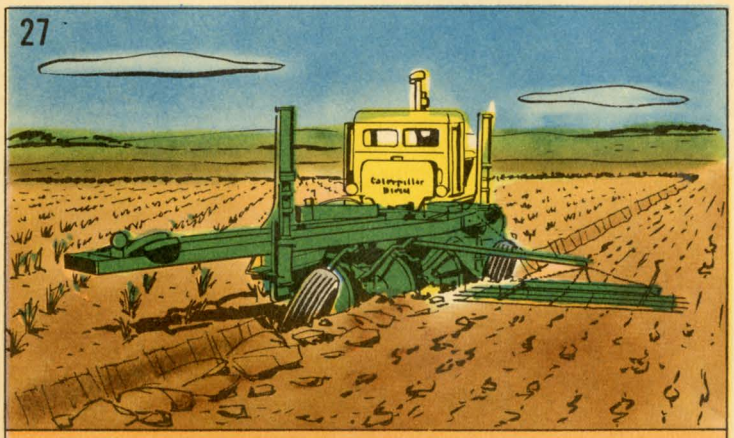


26

Heavy spring shank cultivator attachments for the tool bar are widely used for surface tillage and subtillage work. It's a heavy load that these track-type tractors take in stride.

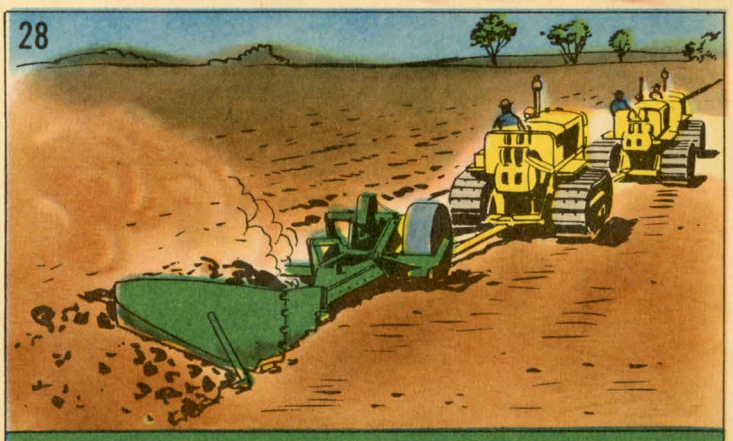


27



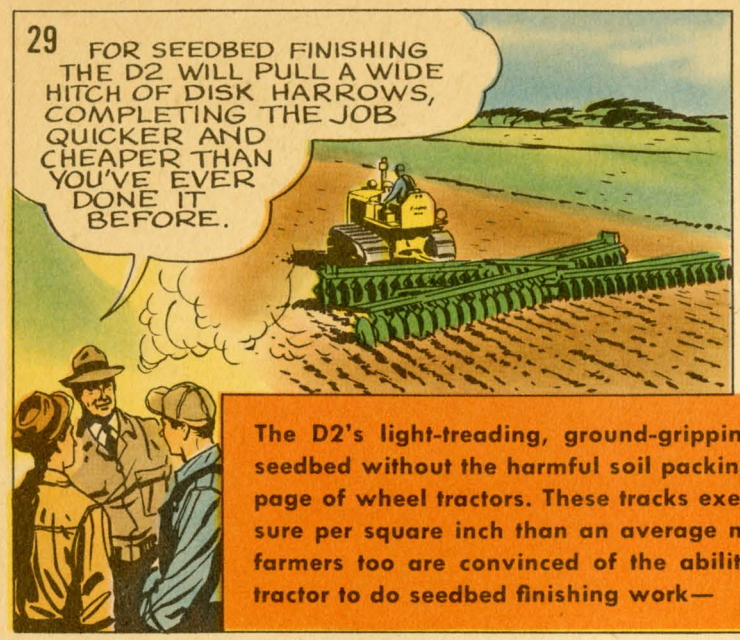
Giant disk plows for controlling wind erosion require big tractor power. These plows, pulled by larger track-type tractors, mix heavier wind resisting soil with light top soil, lessening the danger of wind damage.

28



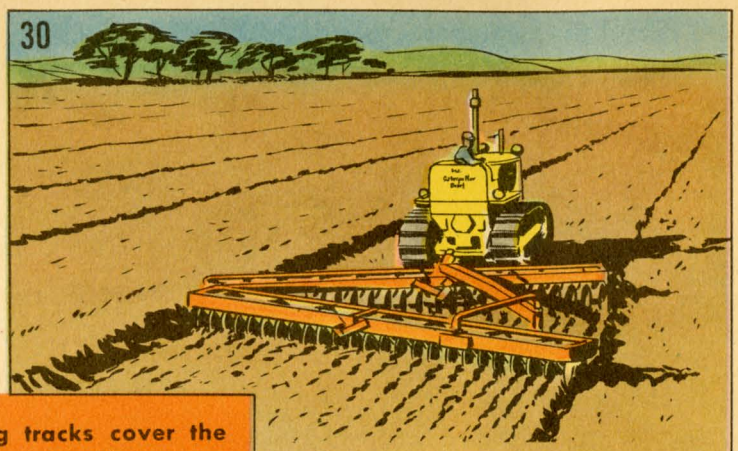
In reclaiming land covered by blow sand or flood deposits, big mold-board plows bring up good soil from depths of two to six feet. "Caterpillar" D8 Tractors are the natural choice of men who renovate land by this method.

29



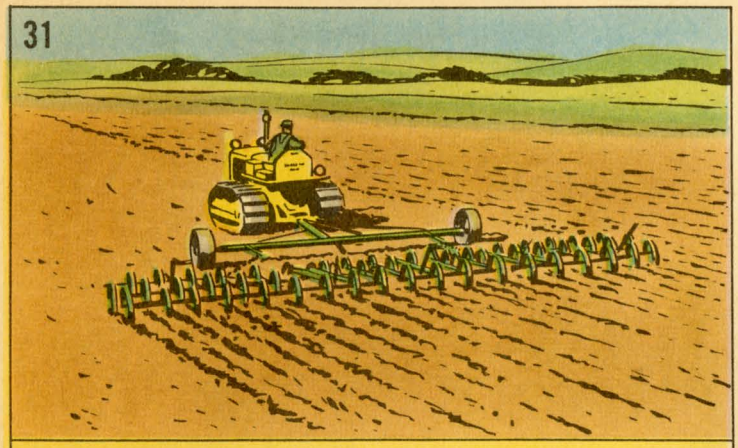
The D2's light-treading, ground-gripping tracks cover the seedbed without the harmful soil packing or inefficient slippage of wheel tractors. These tracks exert less ground pressure per square inch than an average man walking. Other farmers too are convinced of the ability of the track-type tractor to do seedbed finishing work—

30



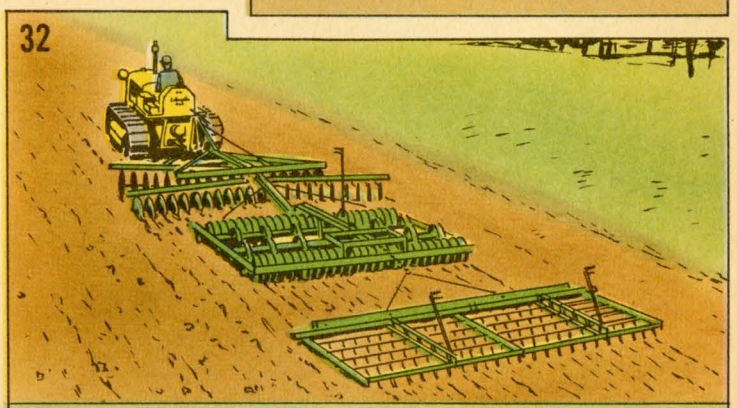
Heavy-duty offset disk harrows are often used in field work for the entire preparation of the seedbed — one time over. "Caterpillar" track-type Tractors provide plenty of power for socking the disks in deep for a better job.

31



Methods of finishing the seedbed vary, but the crawler tractor fills the bill for all types. Wide hitches of spring-tooth harrows speed completion of a mellow, firm seedbed.

32

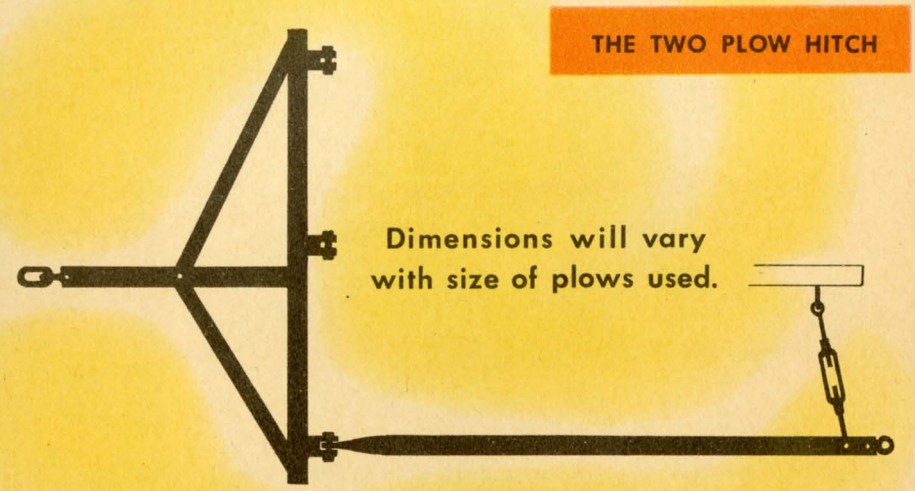


For the farmer who does a super-fine job of preparing the seedbed, the power of the D2 for pulling tandem hitches is an important feature. Often seen behind the D2 is a multiple hitch consisting of tandem disk, cultimulcher and spike-tooth harrow.

33

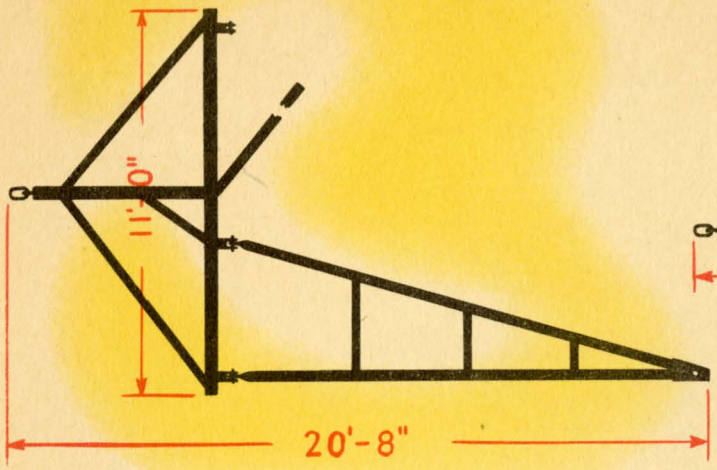
Here are some suggested implement hitches that will increase the usefulness and versatility of "Caterpillar" track-type Tractors.

THE TWO PLOW HITCH

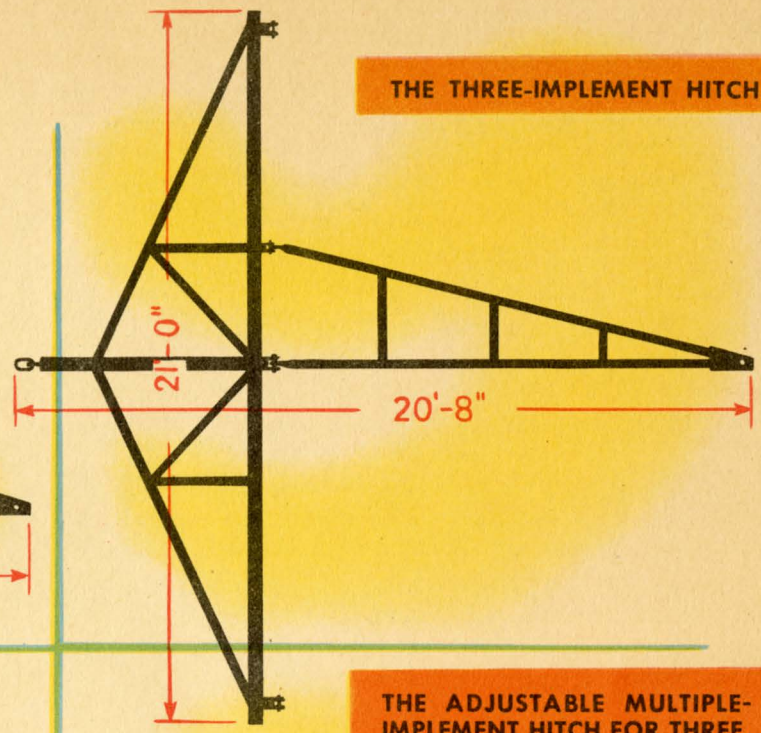


Dimensions will vary with size of plows used.

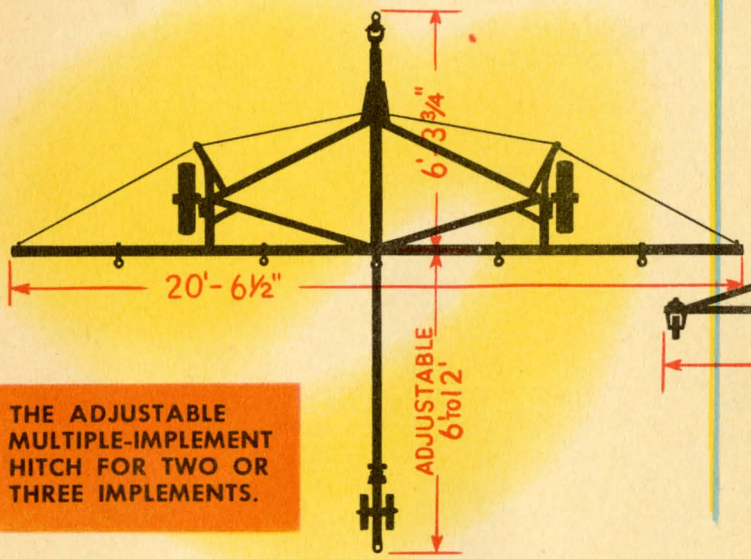
THE TWO-IMPLEMENT HITCH.



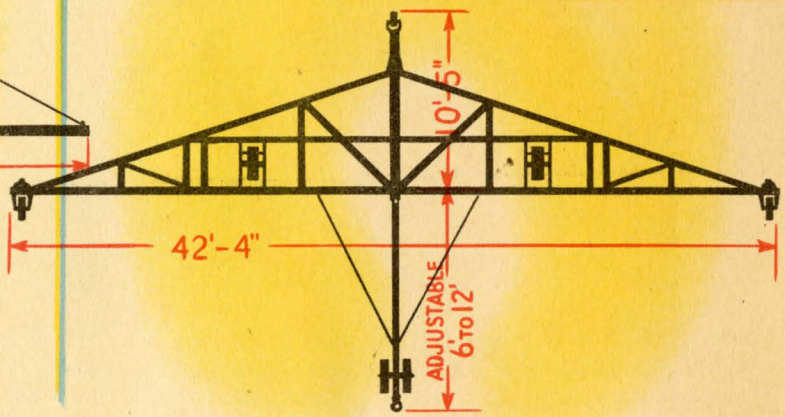
THE THREE-IMPLEMENT HITCH.

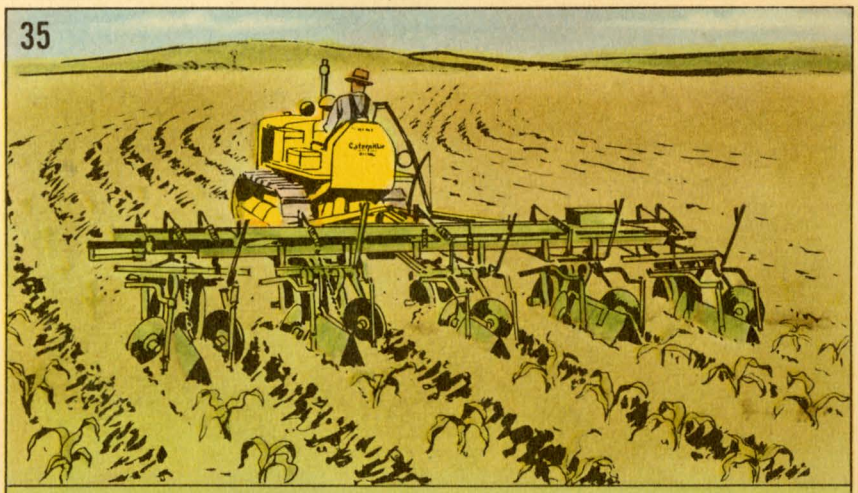


THE ADJUSTABLE MULTIPLE-IMPLEMENT HITCH FOR THREE, FOUR, FIVE OR SIX IMPLEMENTS.



THE ADJUSTABLE MULTIPLE-IMPLEMENT HITCH FOR TWO OR THREE IMPLEMENTS.



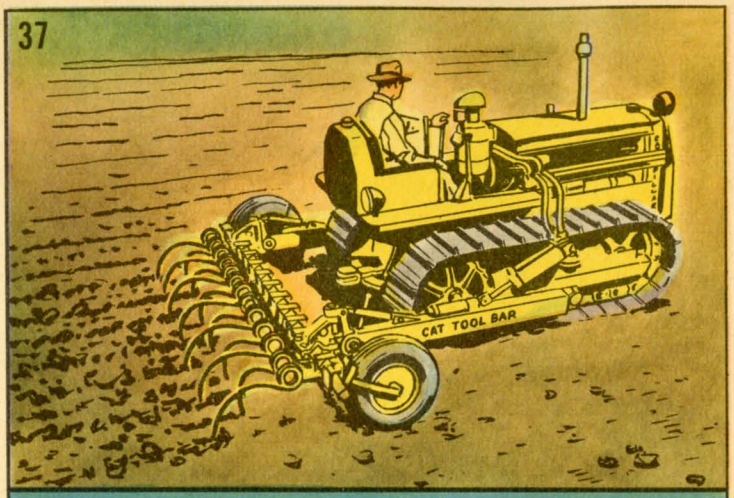


Where row crops including corn are listed, the wide, sure-treading tracks of the D2 ride the ridges safely, with no damage to growing plants by slipping off into crop rows.

36

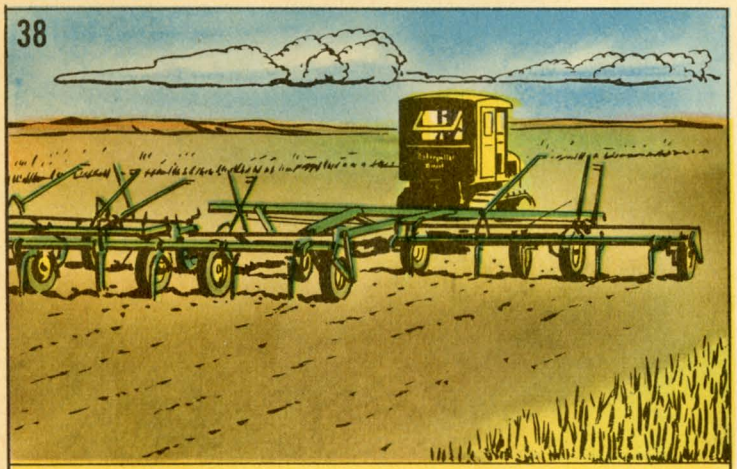
Many row crops are well adapted to cultivating with track-type tractors. Low growing crops such as potatoes are often kept weed-free by the tool bar and coil-spring cultivator attachment.

37



Cultivator tools on the tool bar are often used in seed-bed preparation for certain crops, for loosening and breaking the soil prior to planting.

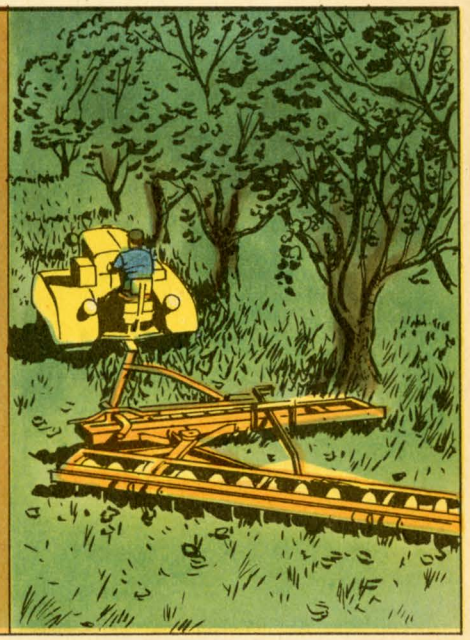
38



With wide hitches of field cultivators or rod weeders, crawler tractors help maintain a weed-free, moisture-holding summer fallow on big acreages.

39

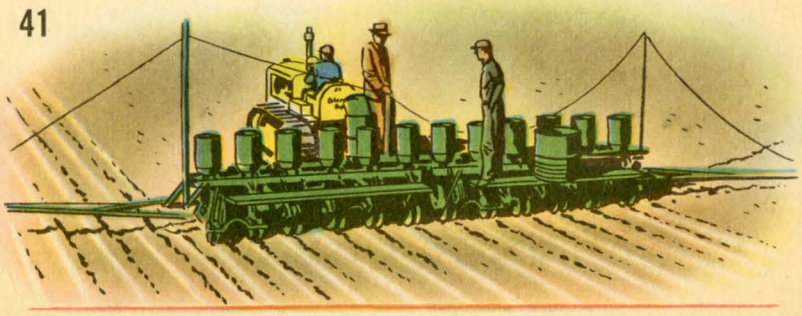
The orchard-type D2 or D4 and offset disk harrow are common sights in orchards and groves for weed control and turning under cover crops. The low rear seat enables the operator to disk in close to trees without fear of low branches. The tractor can be equipped with orchard exhaust, keeping exhaust fumes and the stack itself away from fruit trees.



40

This freedom from undesirable soil packing means a well prepared seed-bed, ideal for seed germination and plant growth, whether drilling sugar beets and fertilizer or riding the ridges pulling a lister corn planter.

41



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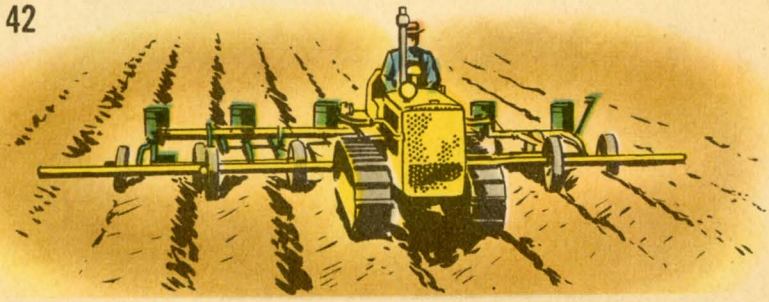

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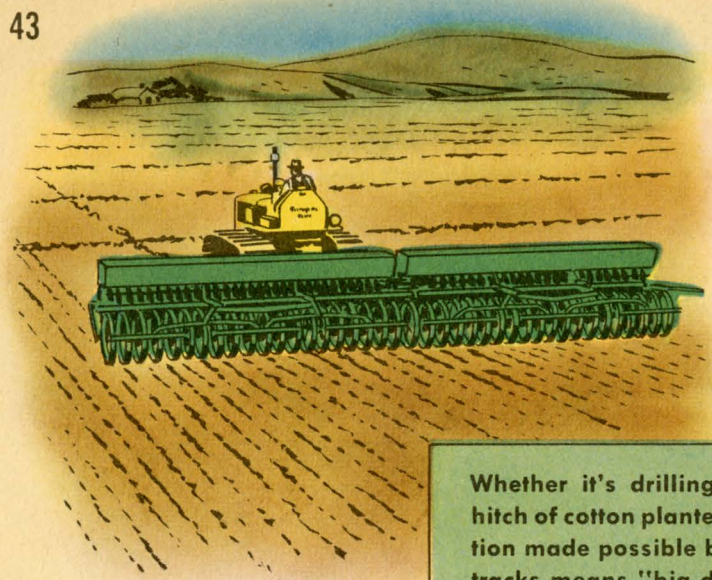
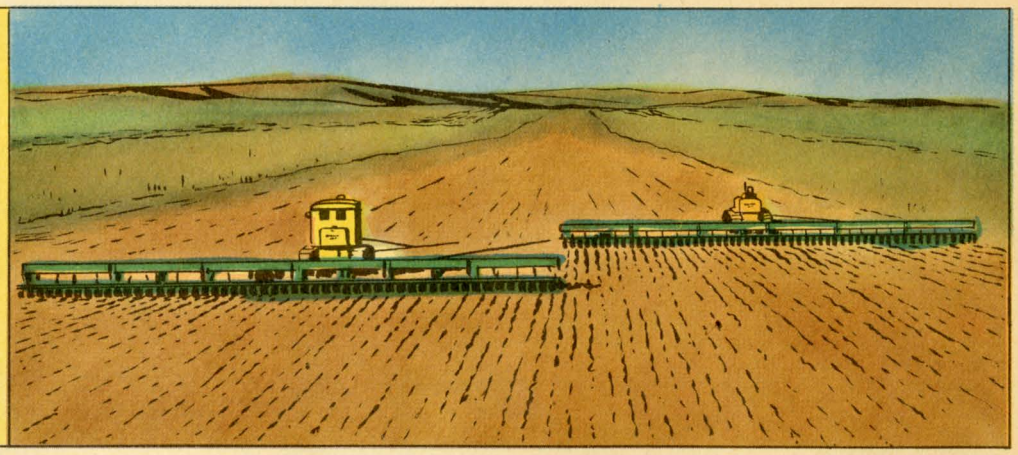


44

Whether it's drilling grain or pulling a wide hitch of cotton planters the timeliness of application made possible by the use of light-treading tracks means "big dividends."

45

Wheat ranchers with large acreages find that track-type tractors and wide hitches of grain drills make an ideal seeding team. Drilling up to 15 acres per hour, positive traction and wide hitches allow the grower to get his crop in fast and on time, to make full use of the growing season.



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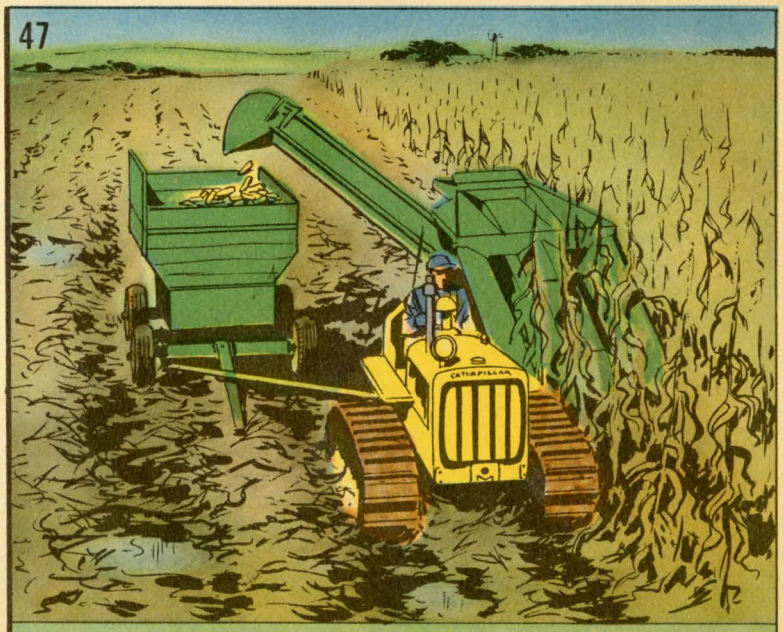
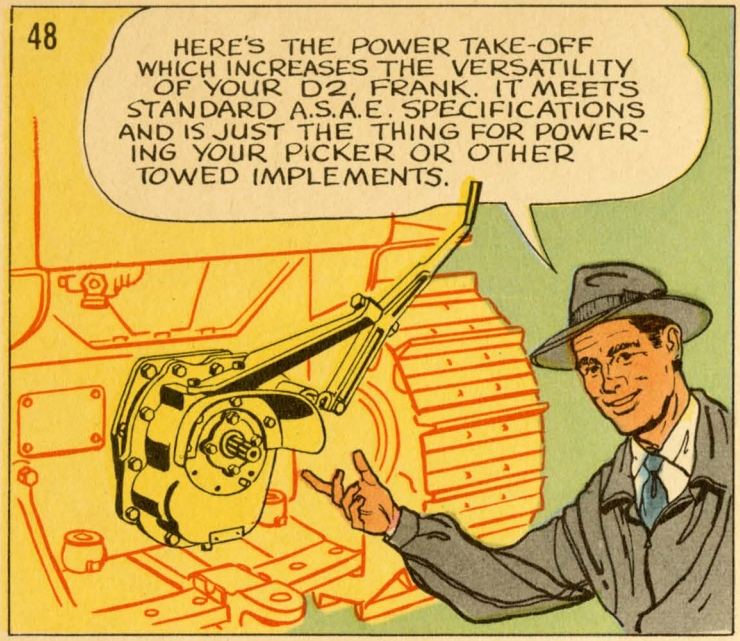
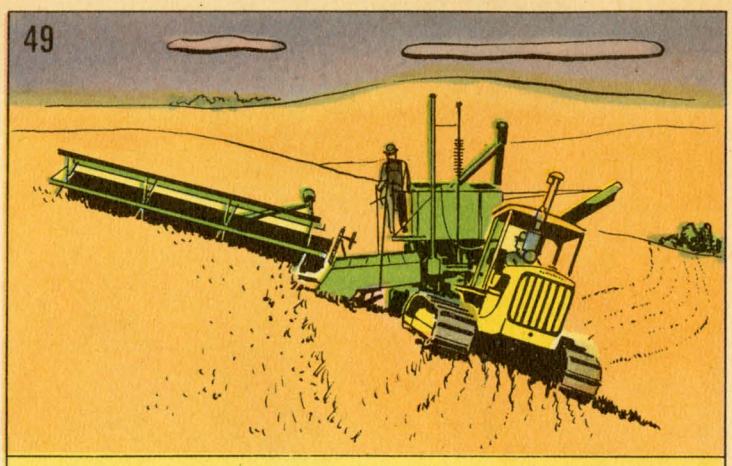


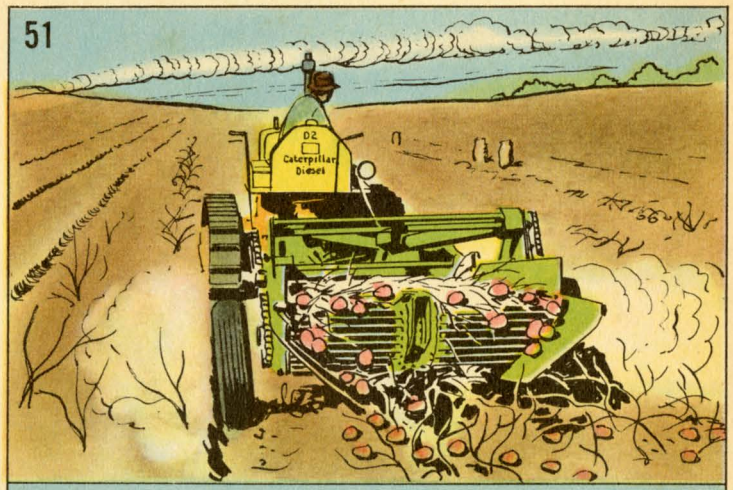
During picking season, when fields are so often muddy, the sure traction of the D2 means the difference between getting the corn out and waiting for dry ground.



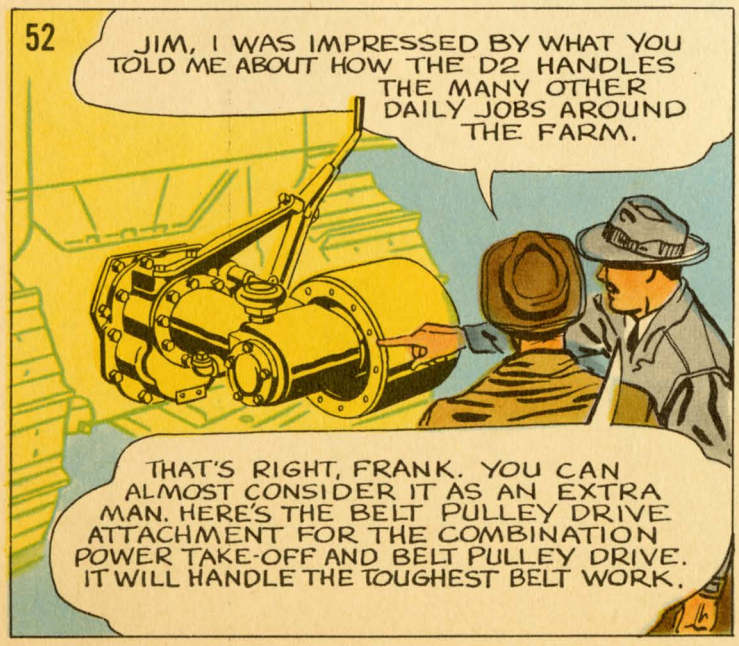


To the wheat rancher a crawler tractor is almost essential for harvesting the big acreages of grain. They have the power and traction to pull the big side-hill combines and work on steep slopes.

For combining rice the broad tracks pull steadily through mud and soft ground. Whether pulling the combine or the "bank-out" wagon, "Cat" track-type Tractors are a source of dependable power for this tough job.



For the many other harvesting jobs where power, traction and fuel economy are important, Diesel track-type tractors play an important role. The power take-off driven potato digger is a good example.



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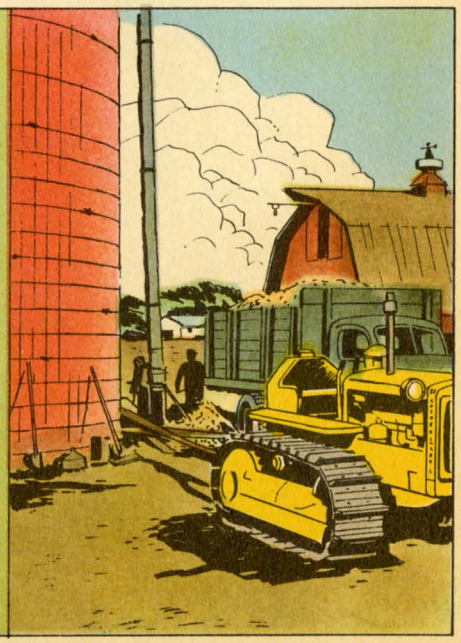
For feed grinding, pumping, silo filling or any of the many other belt jobs, the belt pulley drive permits greater use of the economical Diesel engine. Accurate control of tracks makes belt aligning a simple matter.



The positive traction of the track-type tractor makes it invaluable as a hauling unit—when unfavorable ground conditions prevent wheel tractors from operating. To the vegetable grower and the stockman this is important. It means getting the crop out on time, when it's ready, and it means getting feed to cattle in snow-covered pastures.

54

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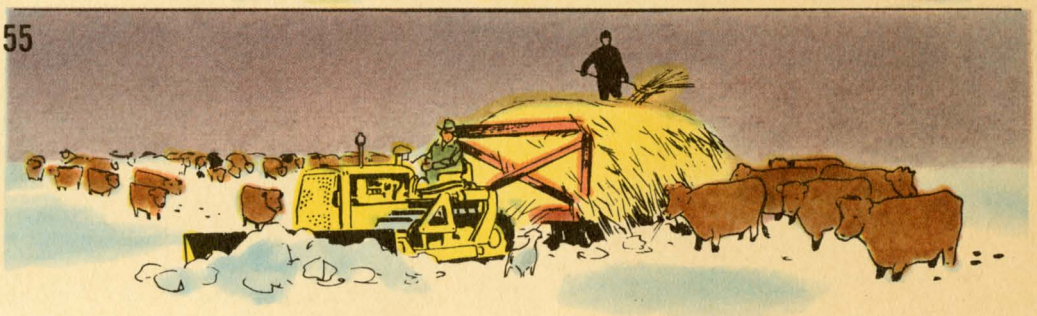

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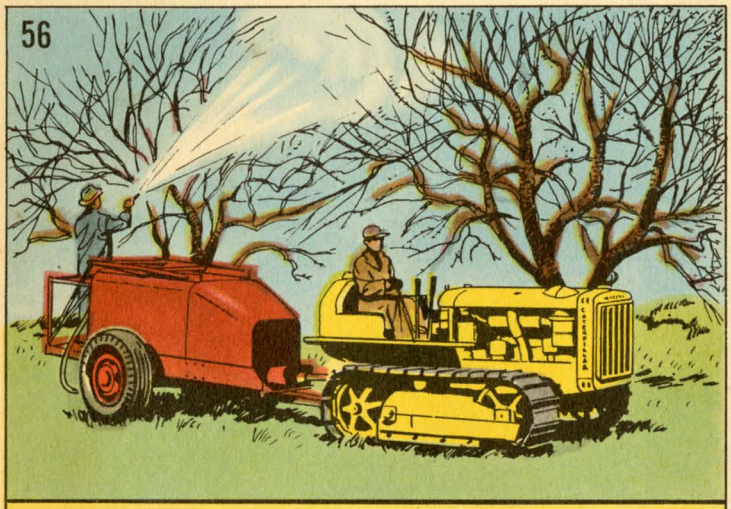
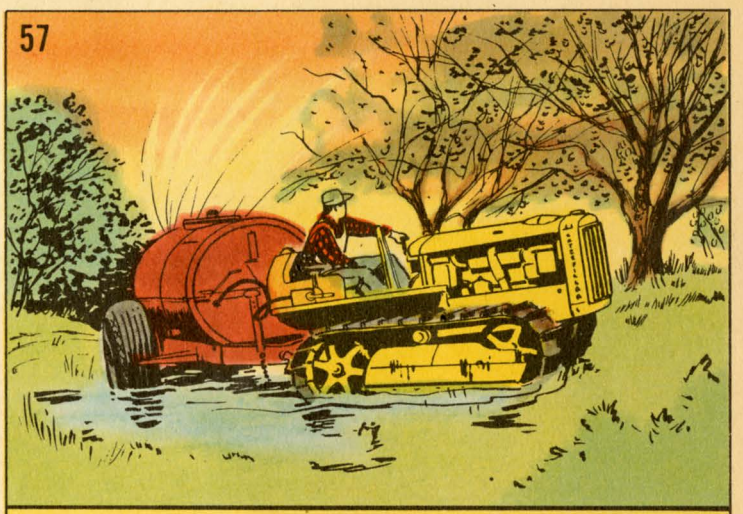


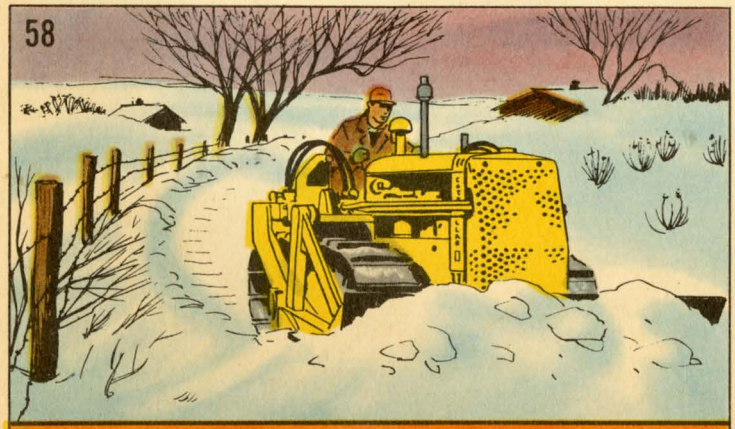
"Cat" Diesel Farm Tractors are in great demand by orchard growers for their long life, economy, traction and "live" power take-off.

57



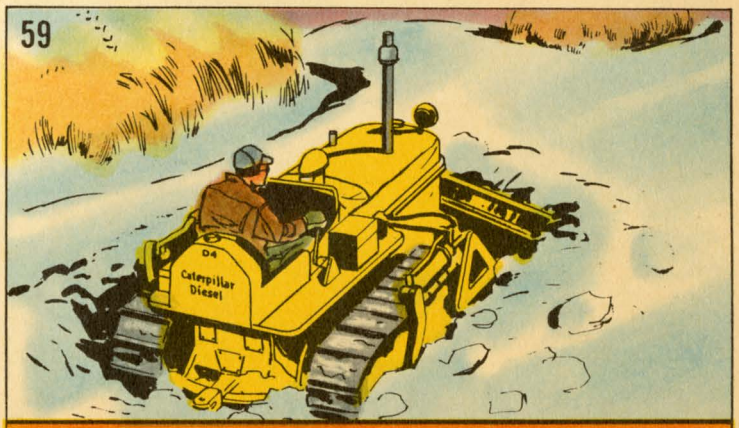
Positive traction, even though bad weather or thaws may turn orchards or groves into a quagmire, permits the grower to follow an accurate spray schedule.

58

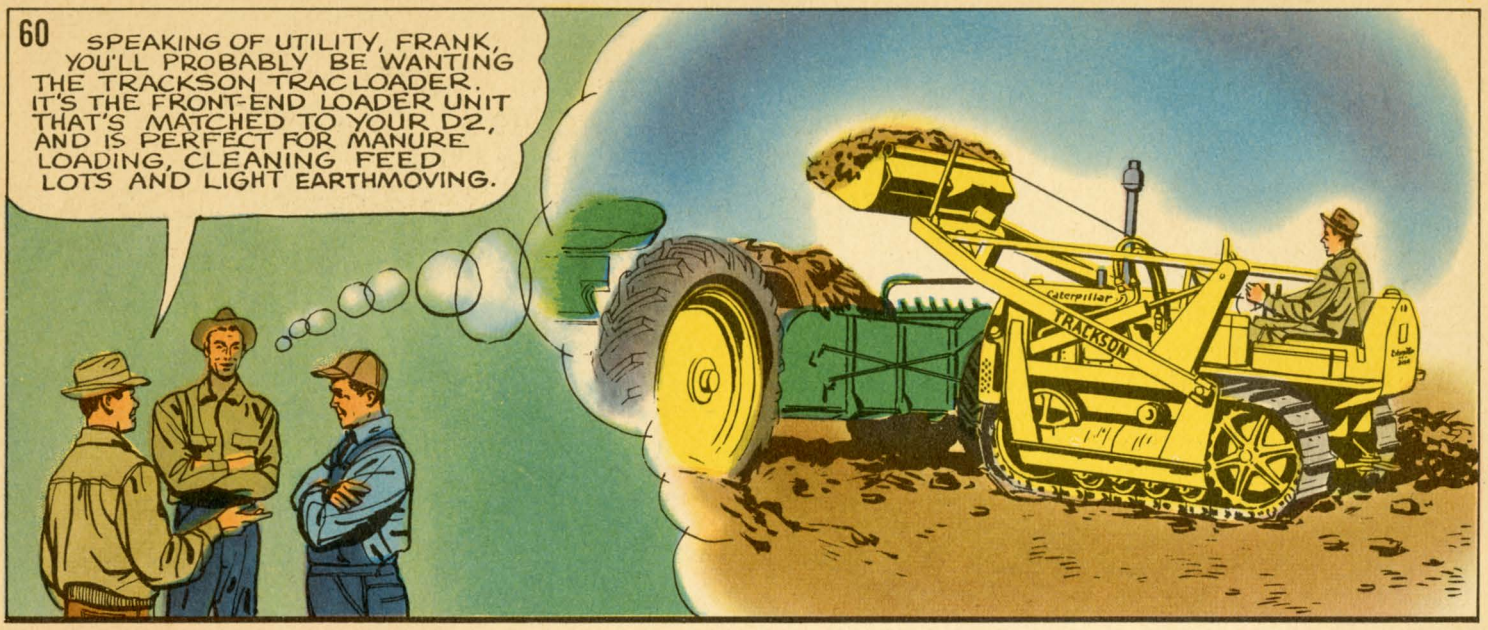


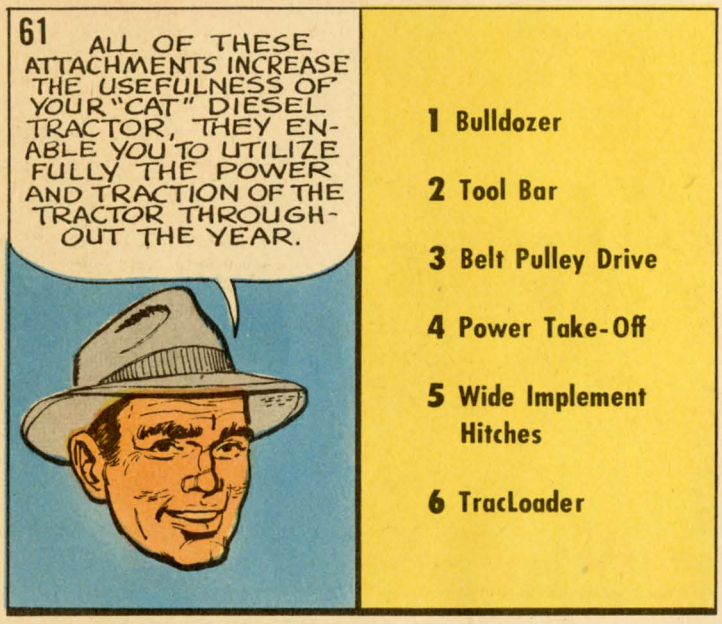
Its ability as a snow removal unit makes the crawler tractor an extremely valuable asset for farms and ranches in the snow belt. Properly equipped with dozer or front-end loader the D2 opens roads and lanes or clears the feed lot.

59



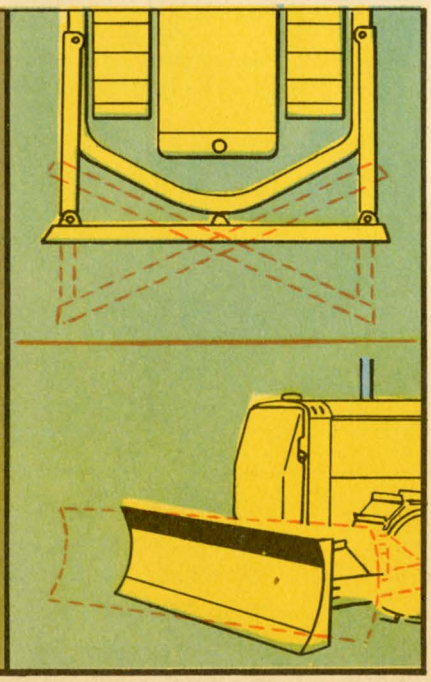
The dependable starting engine gets the Diesel going even in coldest weather. That's very important to the stockman, for in deep snow he saves livestock by releasing them from deep drifts and opening paths to food supplies.

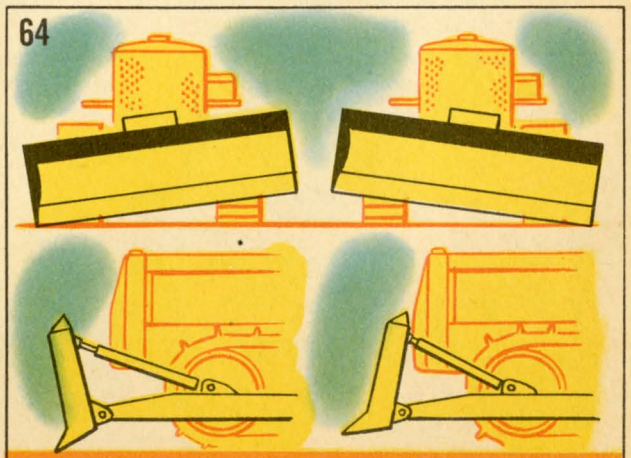




63

For the many earthmoving jobs undertaken by the progressive farmer, the tractor-dozer combination is an unbeatable team. "Cat" Bulldozers are available either as angling or straight blade units. The angling dozer is excellent for such jobs as pulling mounded earth away from fence rows or clearing for new fences.



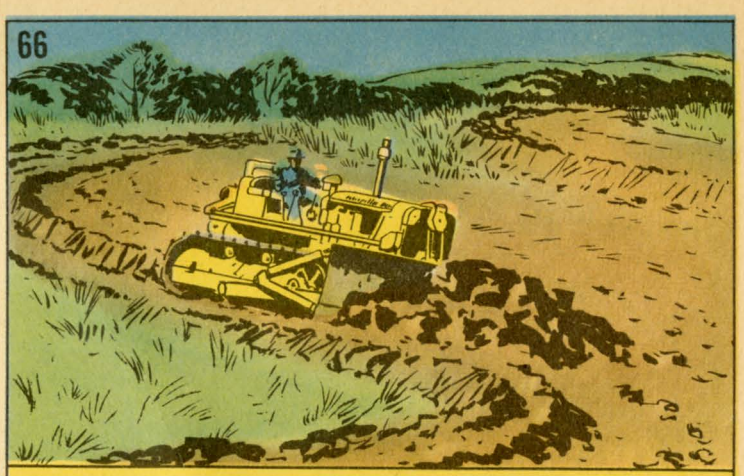


All angling blade dozers can be tilted to either side for digging in with blade corners. All straight blade dozers larger than the D2 size can also be tilted to either side and they can be tipped forward or back for various soil conditions.

65

Control of runoff water is one of the most important considerations in soil conservation. For gentle sloping land and for removing water caught in terraces, the grass waterway aids in conserving valuable topsoil, and the dozer-equipped crawler tractor handles their construction with ease.

66

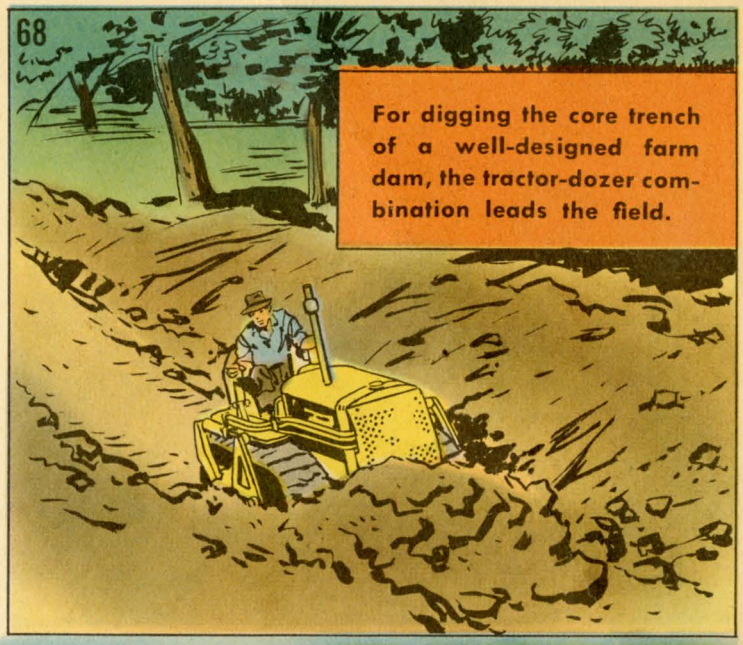


The "Cat" Diesel Farm Tractor and dozer build terraces on steep hillsides to prevent soil damaging erosion. The moldboard plow pulled behind the D2 or D4 can also be used for terrace building.

67

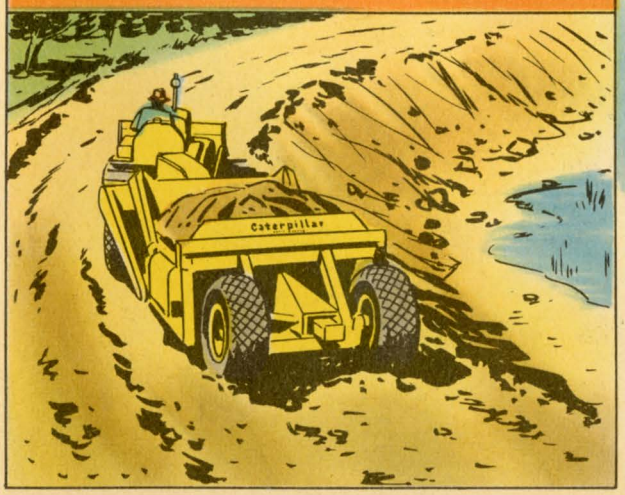
For water control, stock watering and recreation, farm ponds are gaining in popularity. Track-type tractors and earthmoving equipment are building thousands of these ponds every year.

68



For digging the core trench of a well-designed farm dam, the tractor-dozer combination leads the field.

69 "Cat" Scrapers are the big earthmovers in dam and pond construction. Ranging in capacity from 4.5 to 27 cubic yards, they make short work of dam construction.



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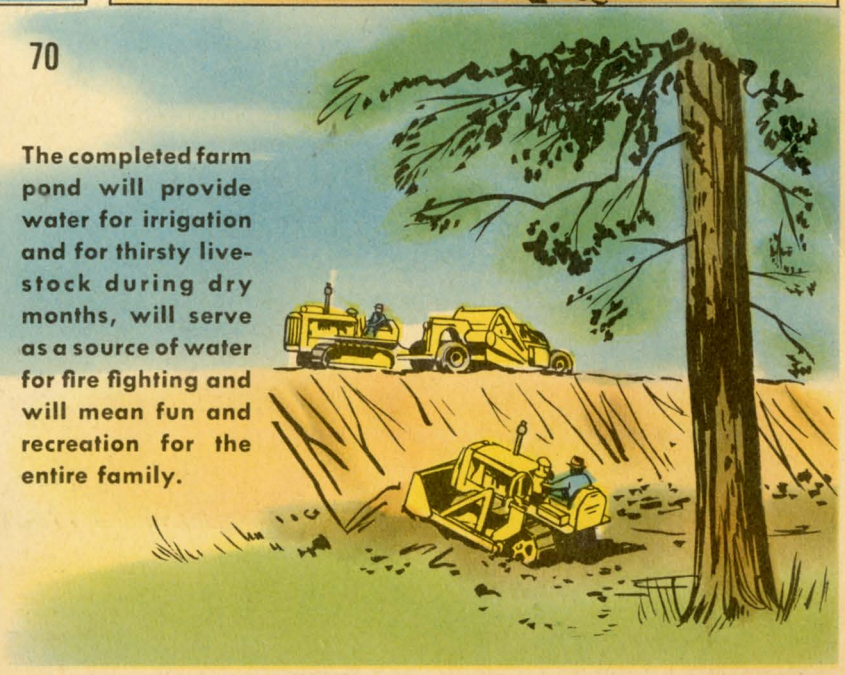
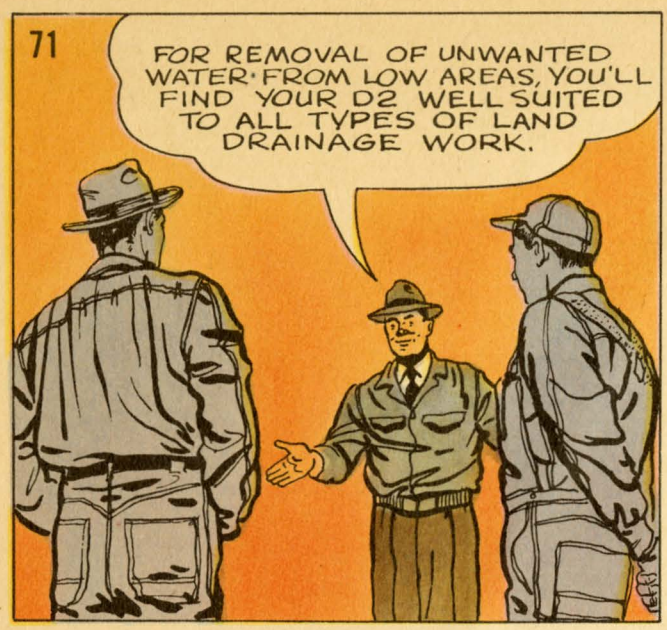
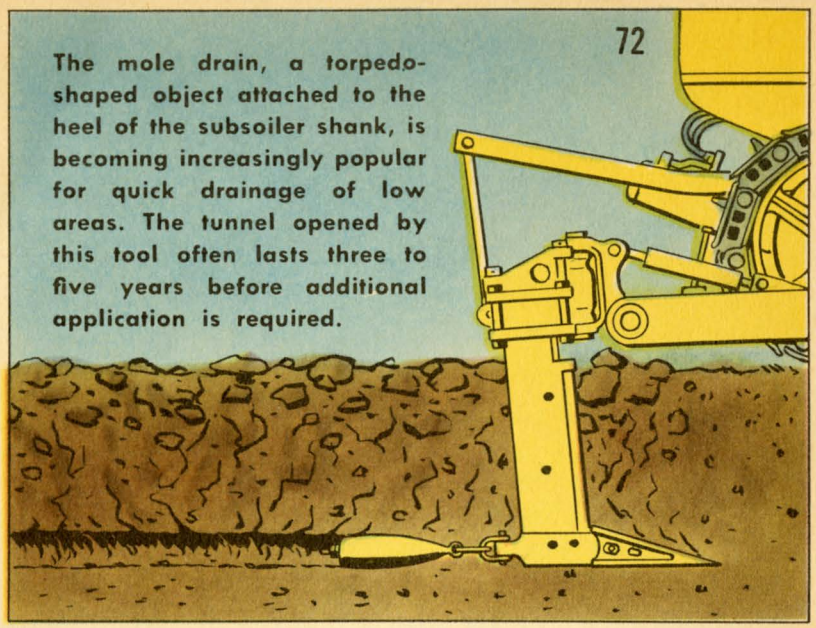
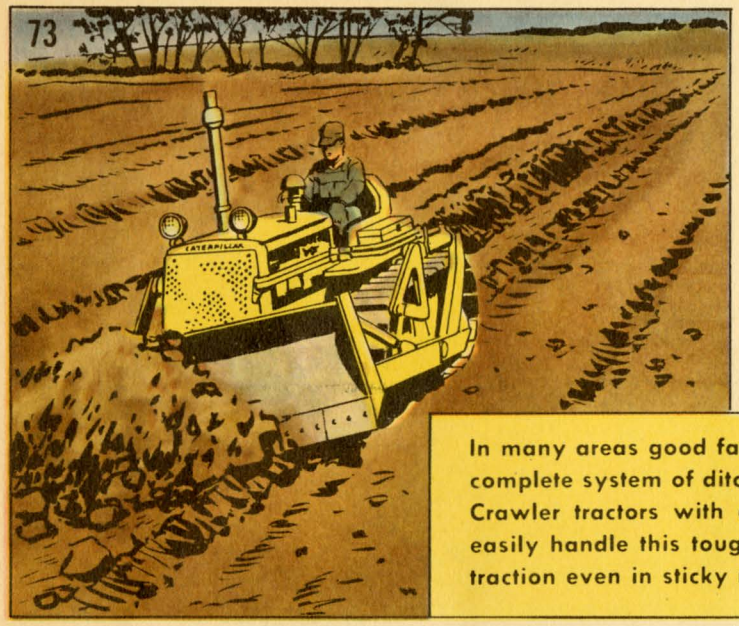
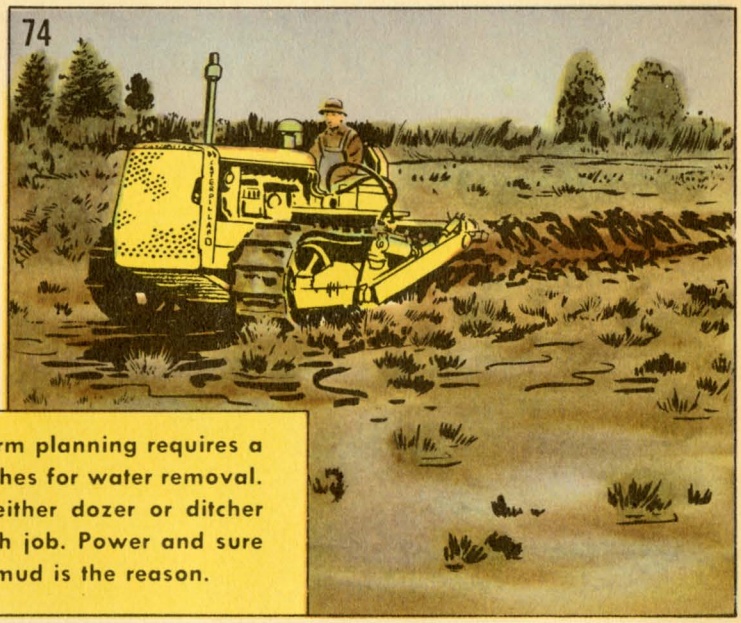
The completed farm pond will provide water for irrigation and for thirsty livestock during dry months, will serve as a source of water for fire fighting and will mean fun and recreation for the entire family.





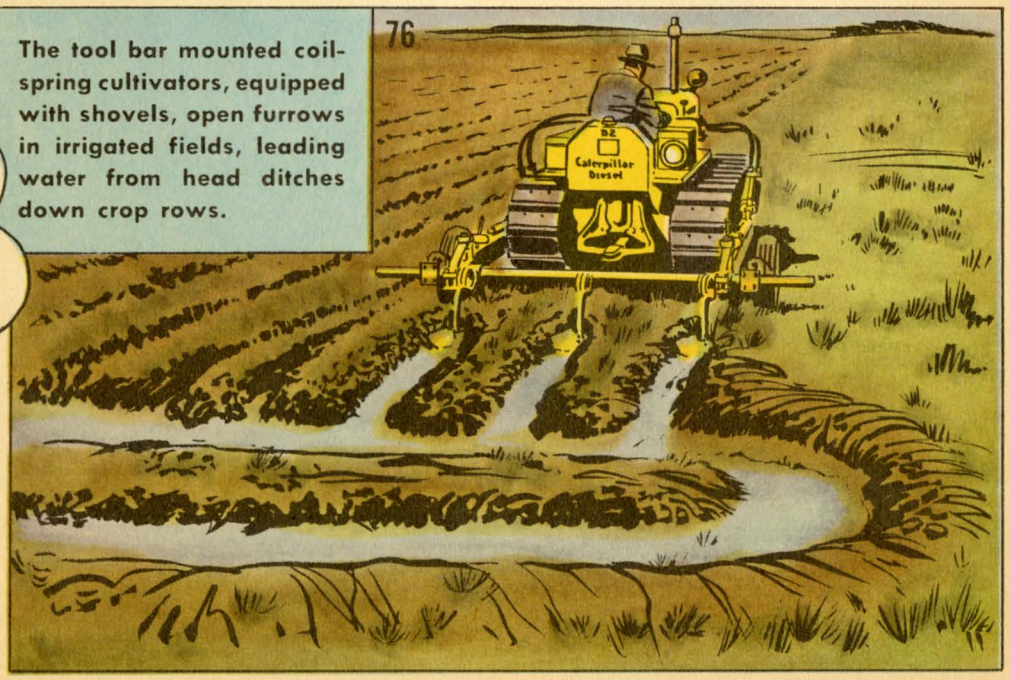


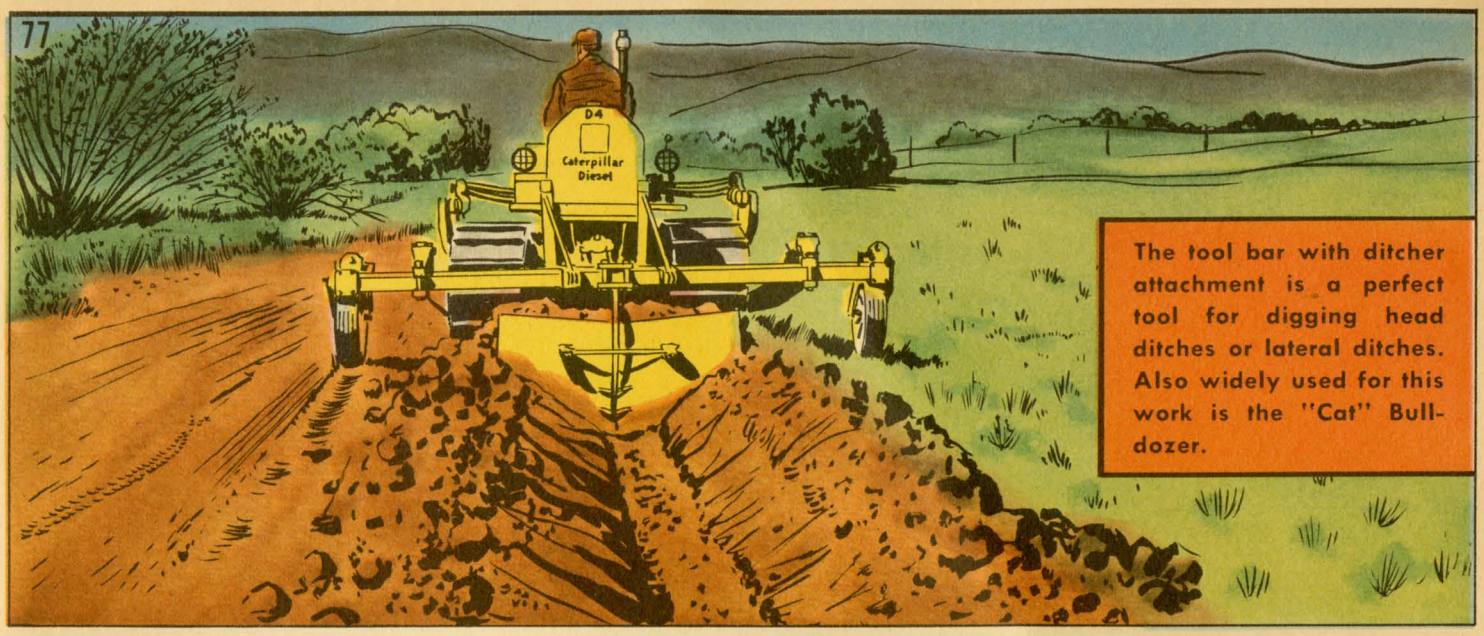




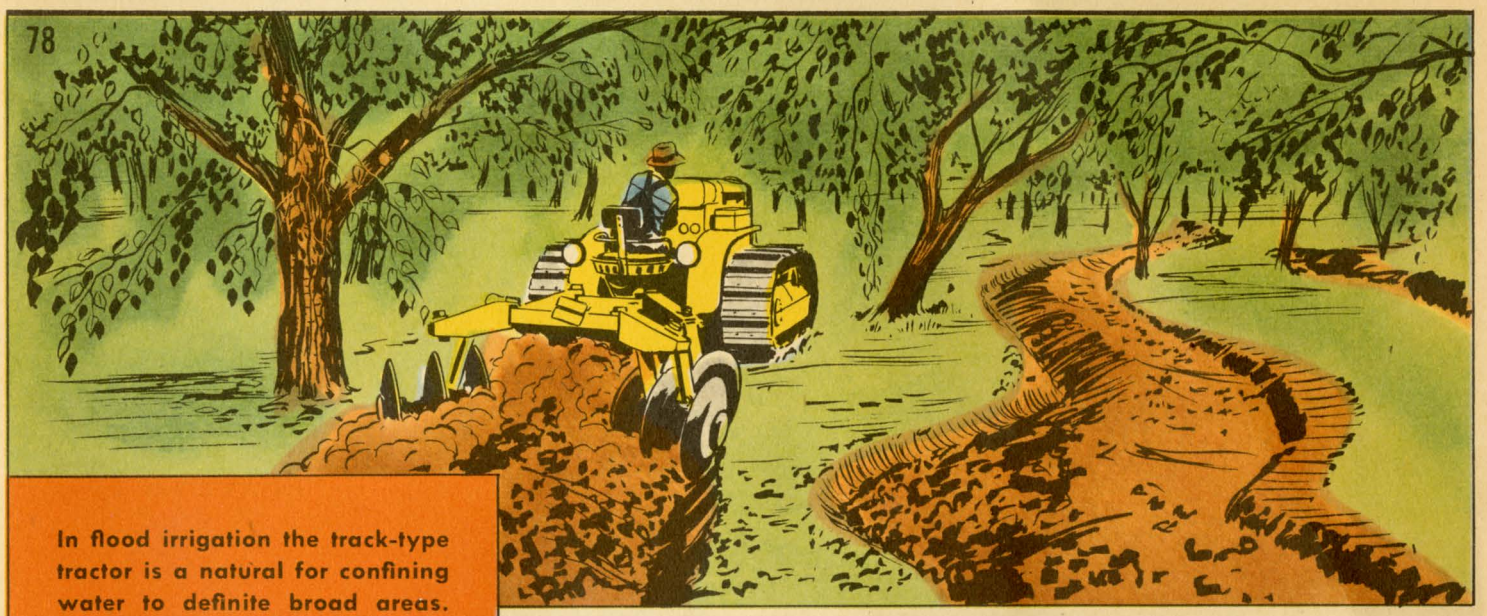
In many areas good farm planning requires a complete system of ditches for water removal. Crawler tractors with either dozer or ditcher easily handle this tough job. Power and sure traction even in sticky mud is the reason.

The tool bar mounted coil-spring cultivators, equipped with shovels, open furrows in irrigated fields, leading water from head ditches down crop rows.

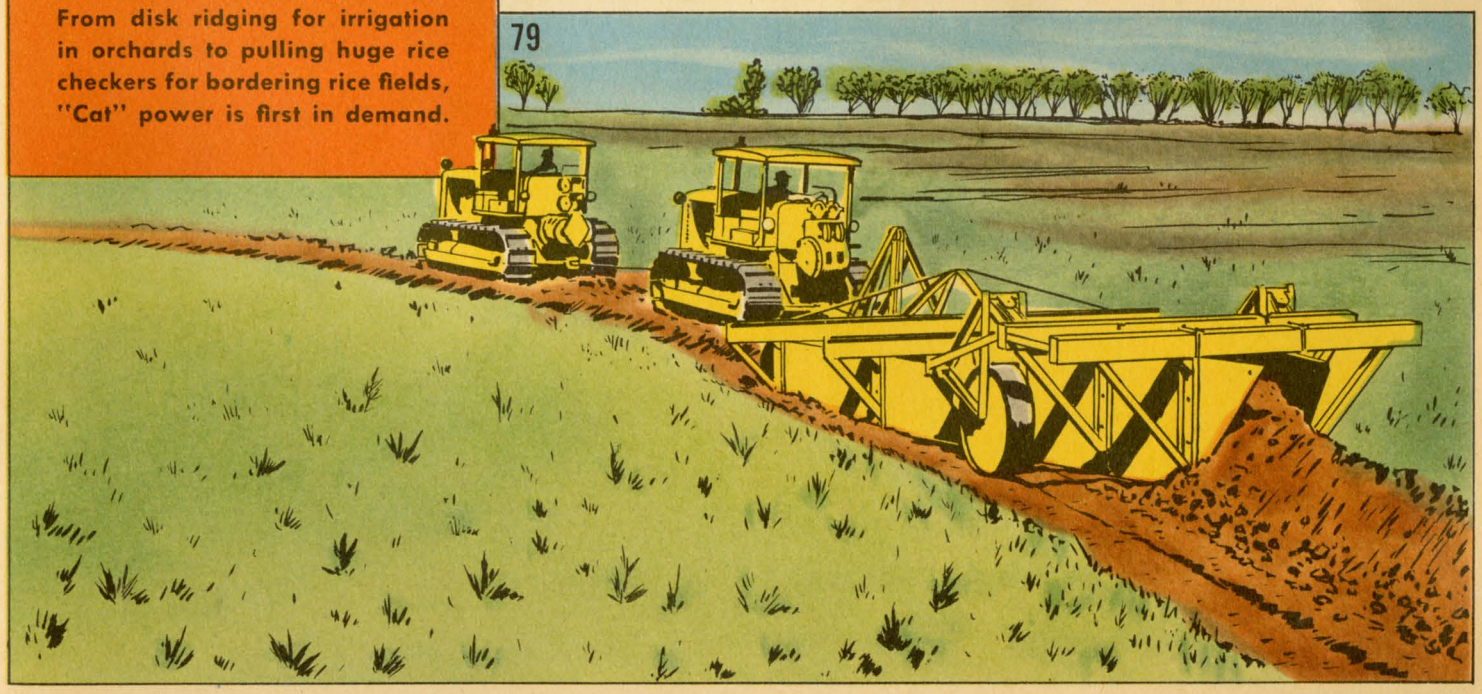




The tool bar with ditcher attachment is a perfect tool for digging head ditches or lateral ditches. Also widely used for this work is the "Cat" Bulldozer.



In flood irrigation the track-type tractor is a natural for confining water to definite broad areas. From disk ridging for irrigation in orchards to pulling huge rice checkers for bordering rice fields, "Cat" power is first in demand.



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For driving irrigation pumps with belt or power take-off, these units assure a steady supply of crop saving moisture.

81

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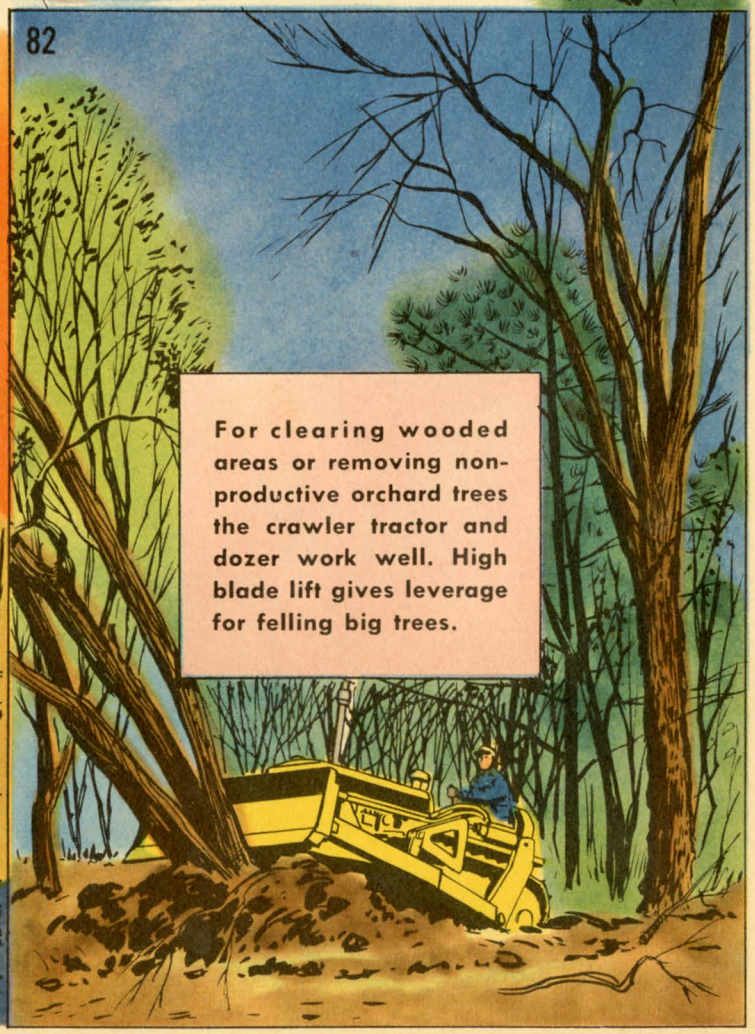


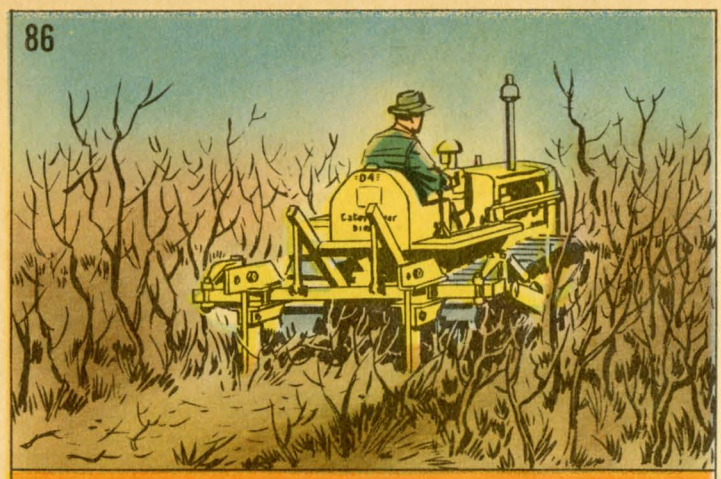
For clearing wooded areas or removing non-productive orchard trees the crawler tractor and dozer work well. High blade lift gives leverage for felling big trees.

Matched to "Cat" track-type Tractors, the FLECO Root Rake is a useful tool for land clearing or reclamation.

Logged out areas present a picture of endless acres of stumps. The work of putting these acres into crop production calls for the FLECO stumper and "Cat" Diesel Tractor.

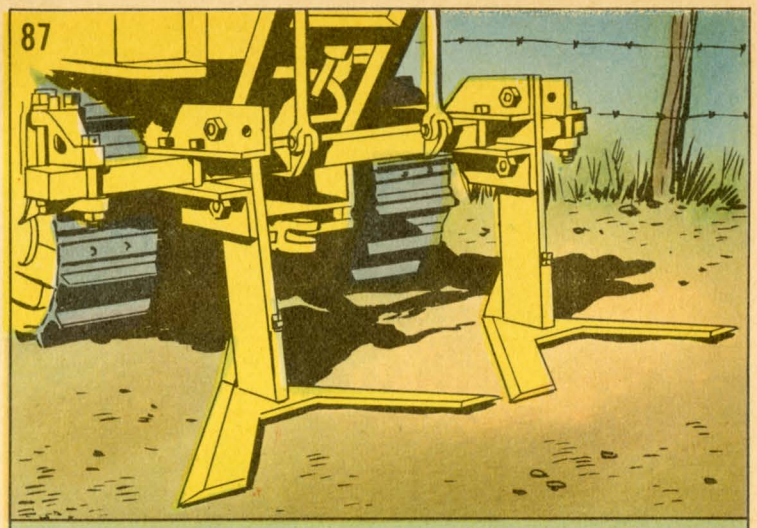
In clearing boulder-covered fields, the tractor-dozer unit digs up rocks and moves them out of the field.

86



The brush problem on much of this country's range land was the reason for development of the "Caterpillar" Root Plane, for use on the "Cat" Tool Bar.

87

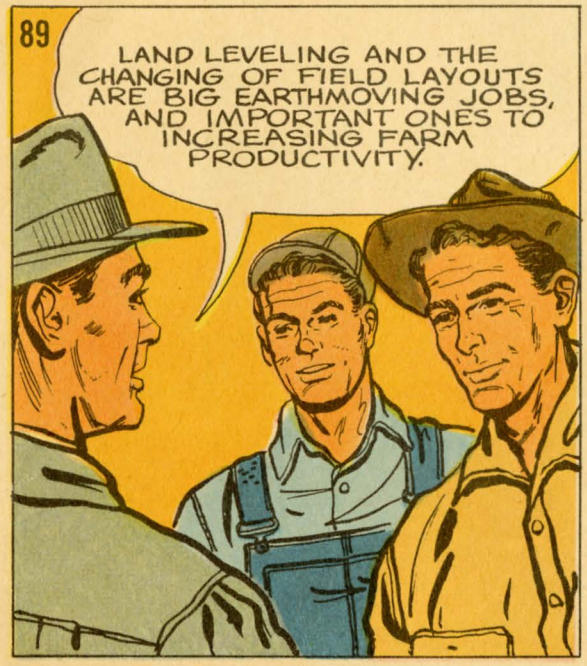


The wide sweeps of the root plane undercut and destroy brush without harming the natural grasses.

88

Clearing scrub growth from large acreages is simplified by crawler tractors. "Cat" D8 Tractors dragging loops of heavy chain uproot all trees and large brush caught in the loop.

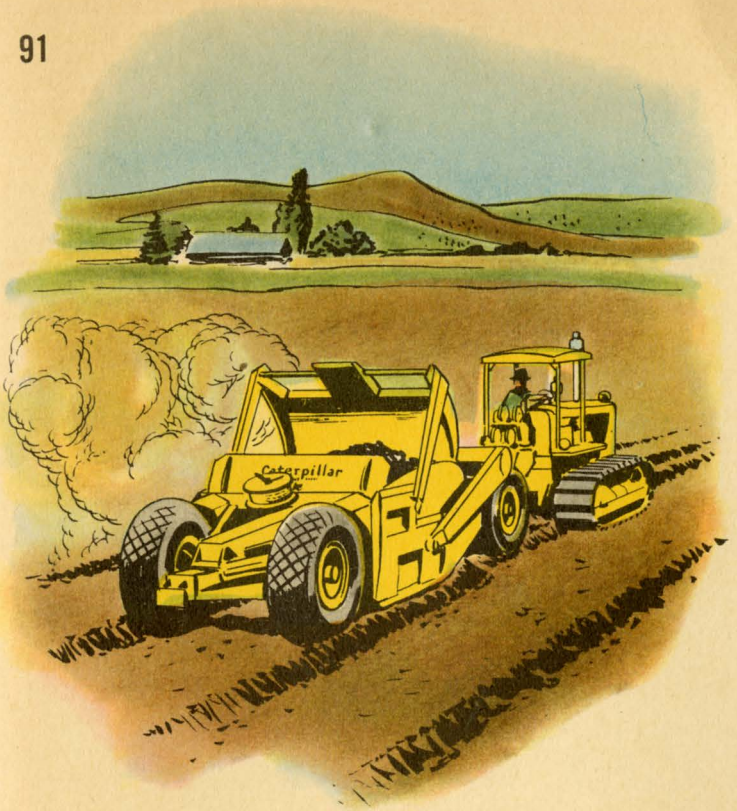
89



90

On many farms and ranches there is a need for elimination of gullies by filling and leveling. It's work in which track-type tractors excel.

91



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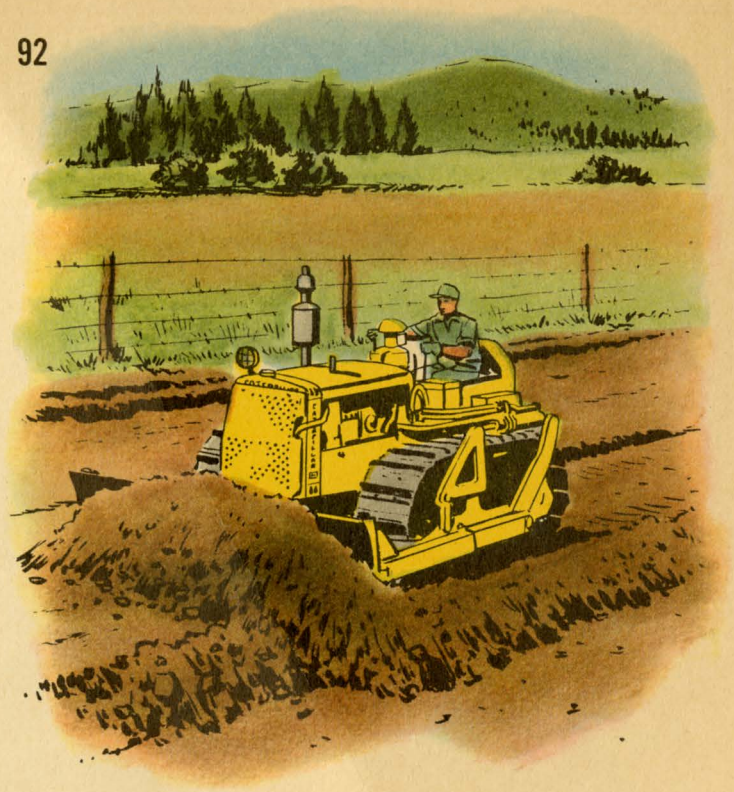
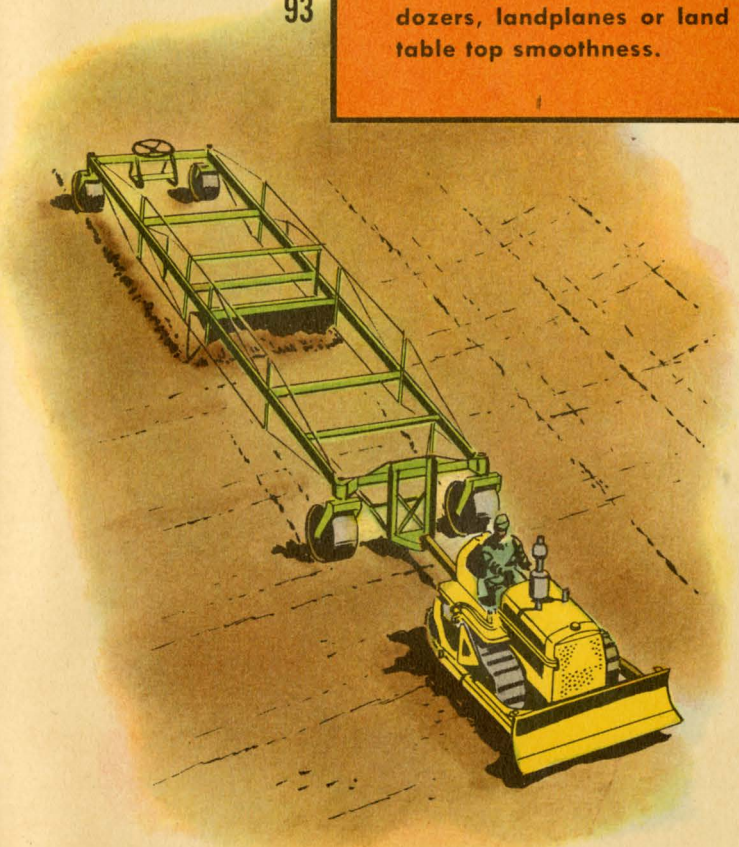


"Cat" Diesel Farm Tractors, with their traction and economical power are the perfect power source for leveling irrigated land or field forming for surface drainage. Used with scrapers, bulldozers, landplanes or land levelers, they level large areas to table top smoothness.

93



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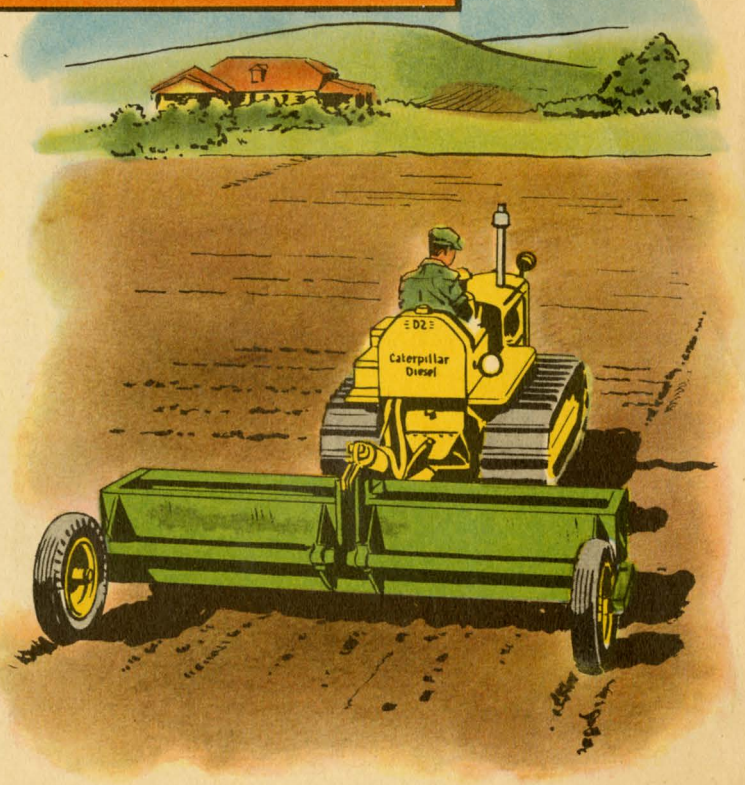
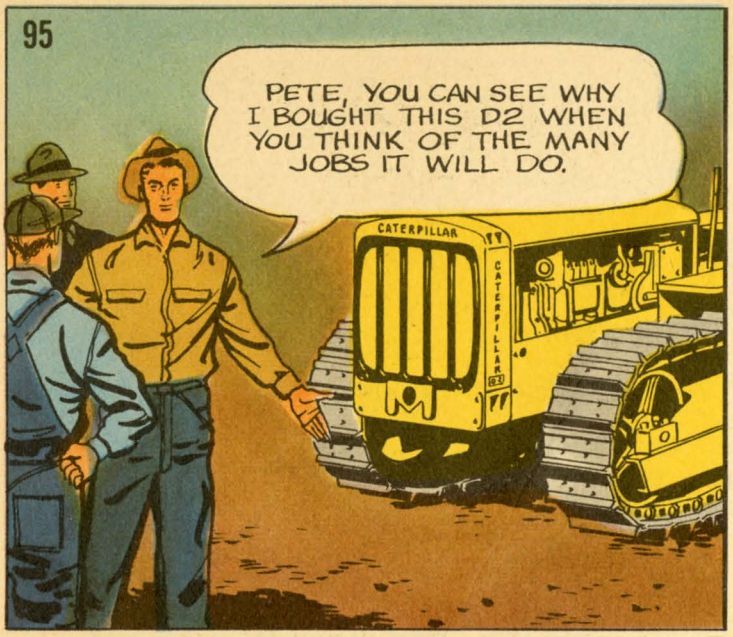
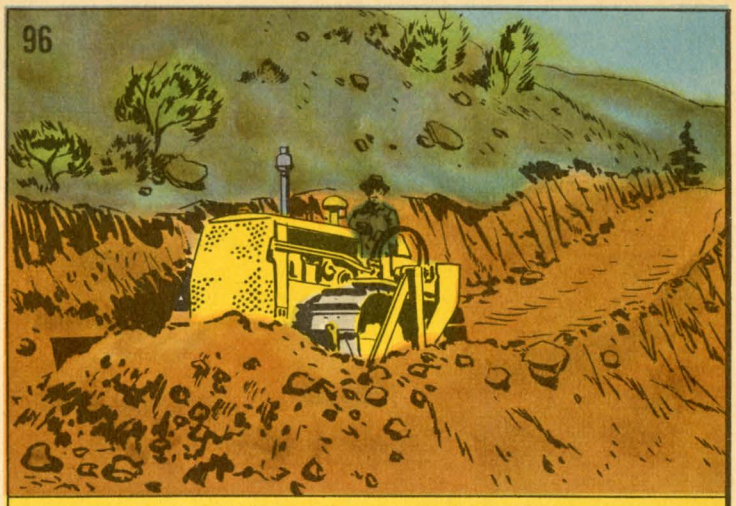
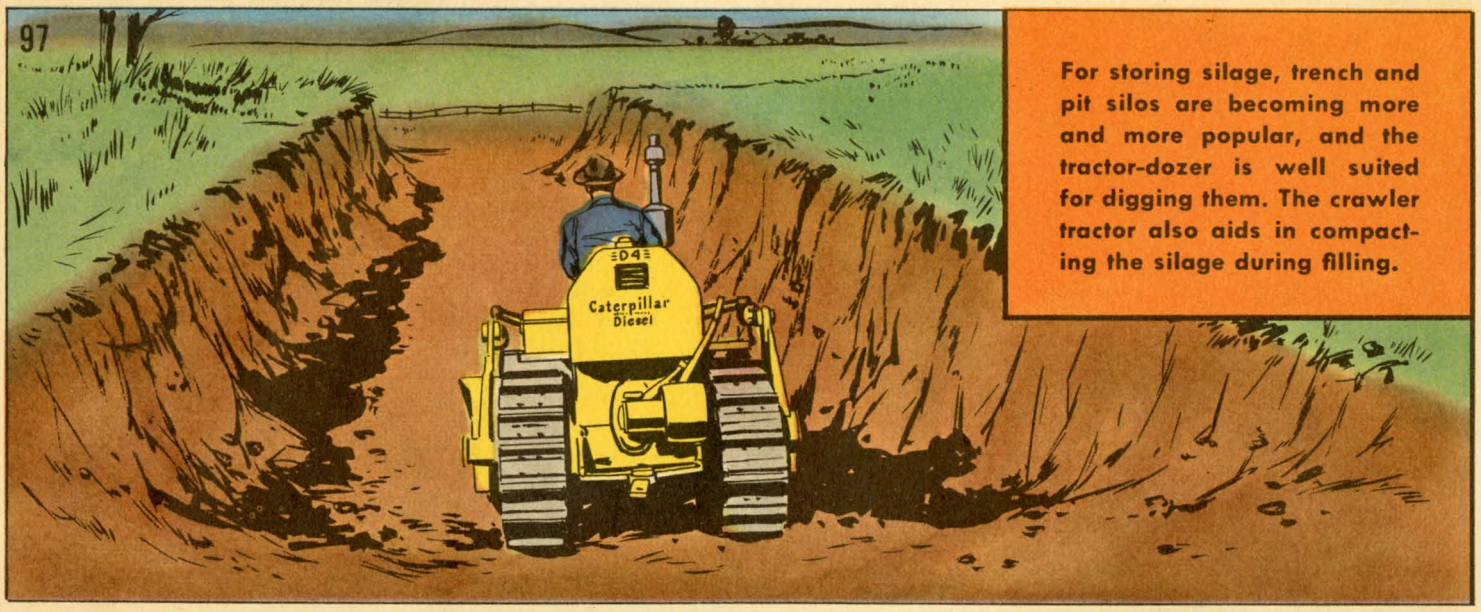


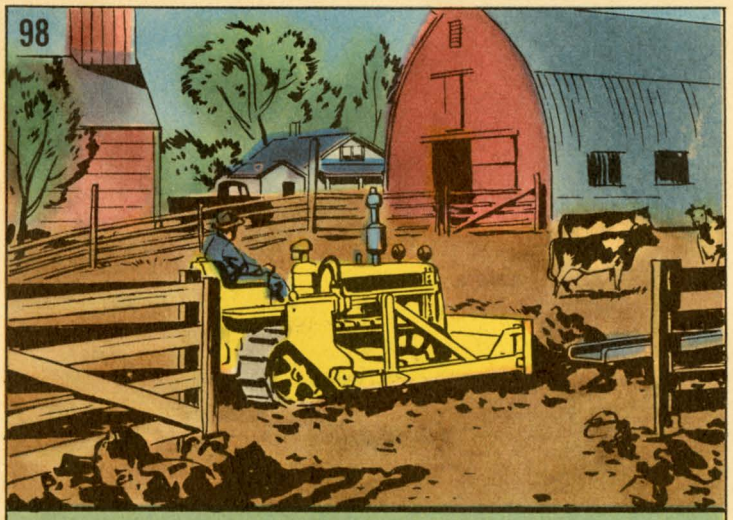




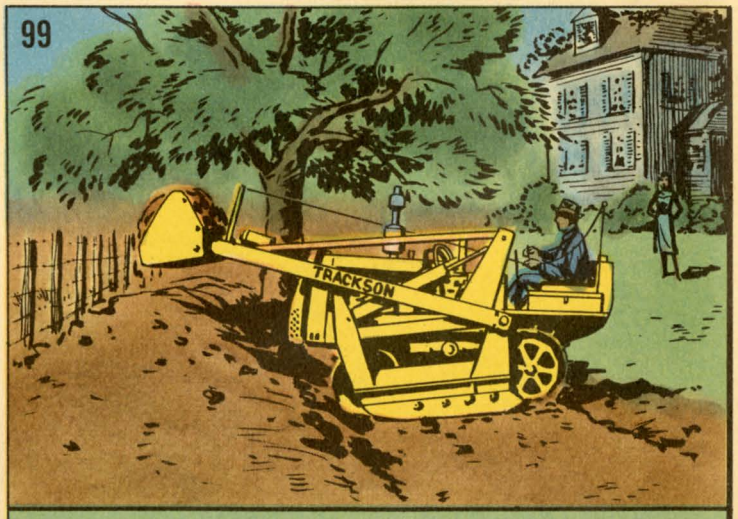
For off season work such as constructing new access roads or lanes the D2 and dozer are a perfect team.



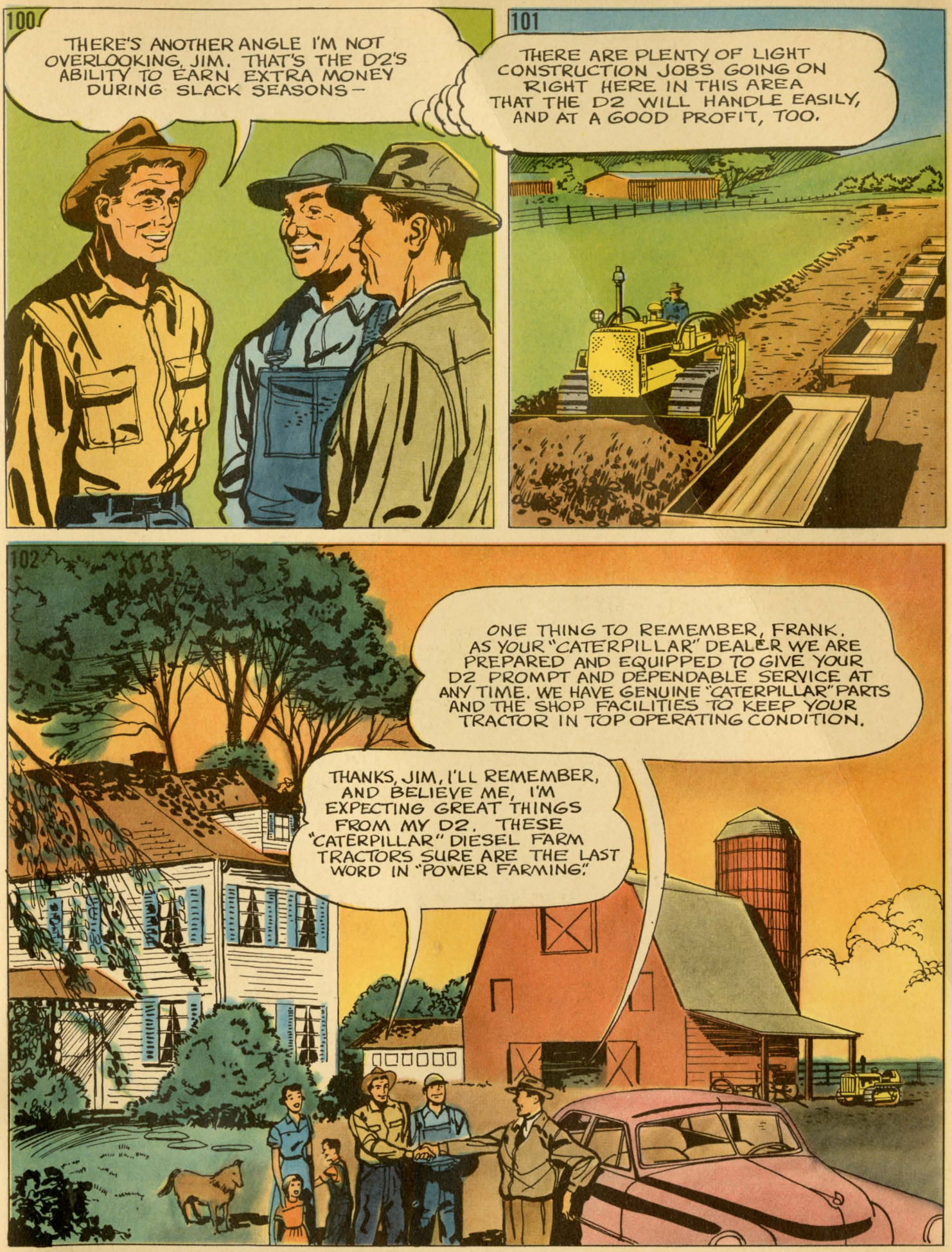
For storing silage, trench and pit silos are becoming more and more popular, and the tractor-dozer is well suited for digging them. The crawler tractor also aids in compacting the silage during filling.

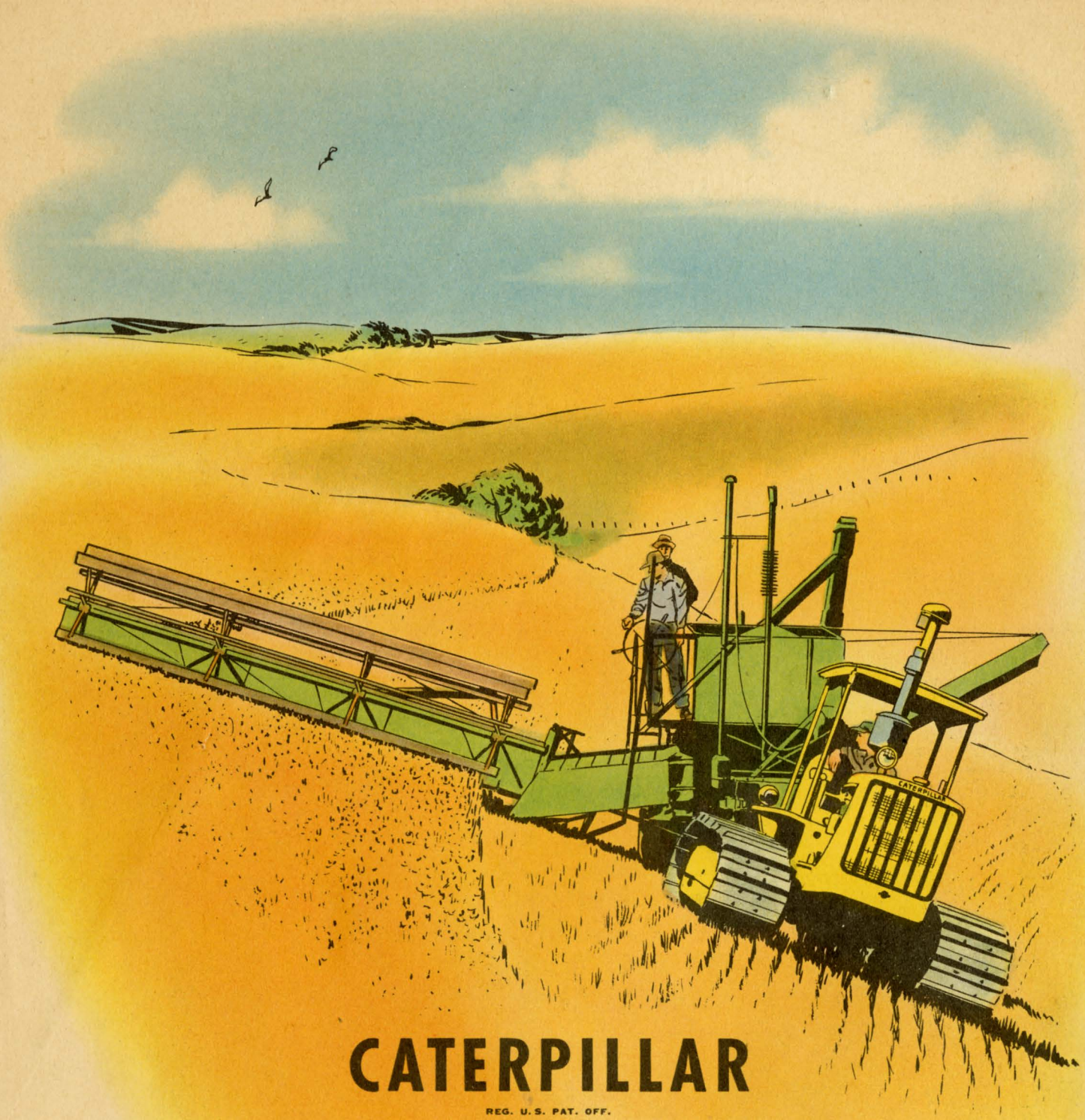


The D2 and dozer make short work of cleaning out feed lots. Here the ability to "turn on a dime" is an important feature.



"Cat" Diesel Tractors are also well suited for the less essential jobs such as landscaping around the farm.


100
THERE'S ANOTHER ANGLE I'M NOT OVERLOOKING, JIM. THAT'S THE D2'S ABILITY TO EARN EXTRA MONEY DURING SLACK SEASONS—
101
THERE ARE PLENTY OF LIGHT CONSTRUCTION JOBS GOING ON RIGHT HERE IN THIS AREA THAT THE D2 WILL HANDLE EASILY, AND AT A GOOD PROFIT, TOO.
102
ONE THING TO REMEMBER, FRANK. AS YOUR "CATERPILLAR" DEALER WE ARE PREPARED AND EQUIPPED TO GIVE YOUR D2 PROMPT AND DEPENDABLE SERVICE AT ANY TIME. WE HAVE GENUINE "CATERPILLAR" PARTS AND THE SHOP FACILITIES TO KEEP YOUR TRACTOR IN TOP OPERATING CONDITION.
THANKS, JIM, I'LL REMEMBER, AND BELIEVE ME, I'M EXPECTING GREAT THINGS FROM MY D2. THESE "CATERPILLAR" DIESEL FARM TRACTORS SURE ARE THE LAST WORD IN "POWER FARMING."



CATERPILLAR

REG. U.S. PAT. OFF.

CATERPILLAR, PEORIA, ILLINOIS

DIESEL ENGINES...TRACTORS...MOTOR GRADERS...EARTHMOVING EQUIPMENT

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